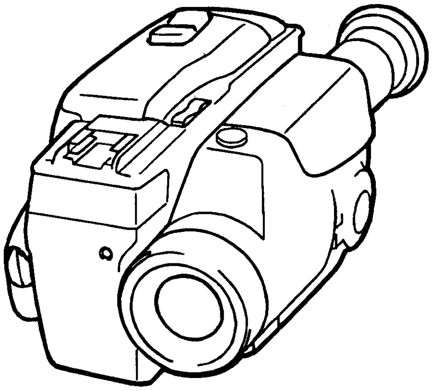
SANYO

FILE No.

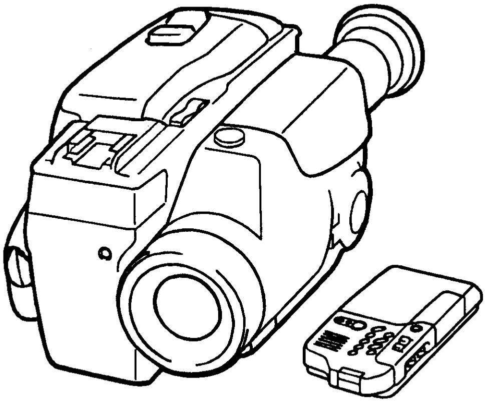
ADJUSTMENT MANUAL

8 mm Camcorder

VM-EX22P (U.K.)
(EUROPE)
(GENERAL PAL AREA)
(AUSTRALIA)
VM-EX26P (U.K.)
VM-EX33P (U.K.)
(EUROPE)



VM-EX22P
VM-EX26P



VM-EX33P

8 PAL

Specifications

Television system	PAL, CCIR
Video recording system	Rotating 2-head, helical-scan system
Audio recording system	Rotating head, FM system
Cassette type	8 mm video cassette tape
Tape speed	SP : approx. 20.051 mm/sec.
Maximum recording time	90 minutes (P5-90 cassette) SP mode
Fast forward/ Rewind	Approx. 6.5 minutes (P5-90 cassette)
Image sensor	CCD solid-state type (320,000 pixels)
Viewfinder	0.6 inch electronic viewfinder (black and white)
Lens	
(VM-EX22P/26P)	10×zoom power f/1.8 (5.8 mm to 58 mm)
(VM-EX30P)	12×zoom power f/1.8 (5.5 mm to 66 mm)
Filter diameter	37 mm
Focus	Fuzzy logic auto focus
White balance	Full auto fuzzy logic
Iris	Fuzzy logic auto iris
Minimum subject illumination	2 lux (Low light mode)
Subject illumination range	2 to 100,000 lux
Recommended subject illumination	300 lux or more
Power supply	6 V : battery pack 6.5 V : AC adaptor/charger
Power consumption	5.4 W during camera recording
Operation temperature range	0 ℃ to 40 ℃ (32 °F to 104 °F)
Storage temperature range	−20 ℃ to 60 ℃ (−4 °F to 140 °F)
Dimensions	
(VM-EX22P/26P)	119 (W) × 111 (H) × 205 (D) mm
(VM-EX33P)	119 (W) × 111 (H) × 208 (D) mm
Weight	
(VM-EX22P/26P)	Approx. 780 g (excluding the batter pack and tape)
(VM-EX33P)	Approx. 790 g (excluding the batter pack, LCD monitor and tape)
Microphone	Electret condenser type , omnidirectional
Video output terminal	Video output 1 Vp-p, 75 ohms unbalanced, negative sync
Audio output terminal	Audio output −7 dBs, 2.2 kohms or less

- Specifications and external appearance are subject to change without notice.

VM-EX22P
PRODUCTION CODE No.
126 044 00 (U.K.)
126 044 01 (EUROPE)
126 044 02 (GENERAL PAL AREA)
126 044 03 (AUSTRALIA)

VM-EX26P
PRODUCTION CODE No.
126 044 04 (U.K.)

VM-EX33P
PRODUCTION CODE No.
126 045 00 (U.K.)
126 045 04 (EUROPE)

ER25P/E, EX, GX, A, ER25P/EDX, ER35MP/E, EX,

REFERENCE NO. AM 550020

The VM-EX22P/26P and VM-EX33P models are almost exactly the same as the VM-EX20P/25P and VM-EX30P models, and thus the Circuit Description section has been omitted.
Please refer to the Block Diagram section of this manual.
For other information, please refer to the materials indicated below.

Material	Model Name	Reference No.
Parts List and Circuit Diagram	VM-EX22P/26P VM-EX33P	PL 550020
Supplement of Mechanism Manual	RS MECHANISM	MS 550018
AC Adaptor/charger		
Service Manual	VAR-S15	SM 550008
Supplement of Service Manual	VAR-S15A	SS 550018
LCD Color Monitor Remote Controller (VM-EX33P only)		
Service Manual	VRM-30P/30	SM 550009
Supplement of Service Manual	VRM-30P Ⓐ	SS 550020

The name for the Model VM-EX25R (ER25P/EDX) for Dixons has been changed to VM-EX26P (ER25P/EDX). Because of the printing schedule, some parts of the text have not been altered to reflect this change.

2. LEADLESS COMPONENT

2-1. IDENTIFICATION

Leadless Transistors

The identification numbers for leadless transistors are indicated by a code on the surface, using one letter and one numeral, two letters, two letters and one numeral, two numerals, one letter and four numerals, or three letters and one numeral.

Code	Transistor Number	Code	Transistor Number
[Transistor]			
BD	2SB1121-T-P	5C	XP4601-TX
BR	2SB1218A-R-TX	5H	XP4501-TW
BR	2SC4081-R-T106	5H	XP4501-TX
B7	2SB815-B7-TB	5K	XP4401-TW
FL	2SA1434-TB	5K	XP4401-TX
F5	2SC4399-5-TL	5L	XN5501-TW
L6	2SC4211-6-TL	ES6	2SA1745-6-TL
M6	2SA1622-6-TL	ES7	2SA1745-7-TL
S1	FMS1-T99	101	FC101-TL
T1	IMT1-T110	102	FC102-TL
X1	IMX1-T109	B1202	2SB1202-S-TL
ZR	2SD1819A-R-TX	IMT1	IMT1-T110
[Digital Transistor]			
A5	FMA5-T99	8B	UN5212-TX
BL	2SA1676-TL	8C	UN5213-TX
BY	2SC4396-TL	9L	XN1213-TW
CL	2SA1677-TL	9T	XN1211-TW
CY	2SC4397-TL	14	DTC114EU-T106
EY	2SC4398-TL	15	DTA124EU-T106
G2	FMG2-T99	16	DTA144EU-T106
G8	FMG8-T99	25	DTC124EU-T106
G9	FMG9-T99	26	DTC144EU-T106
Z1	IMZ1-109	29	DTC115EU-T106
6B	UN5112-TX	86	DTC144WU-T106
6C	UN5113-TX	108	FC108-TL
7L	XN1113-TW	116	FC116-TL

Note: The codes of digital transistors show only the transistor numbers.

Identification With Two Letters

Use this code and the chart for component identification.

Letter	Transistor Number
B	2SB1218A

Example:

Code	Number
BR	2SB1218A-R

$\boxed{\text{B}}$ $\boxed{\text{R}}$

Rank of DC Current Gain (h_{FE})

Transistor Number

Identification With One Letter and One Numeral

Use this code and the chart for component identification.

Letter	Transistor Number
F	2SC4399

Example:

Code	Number
F5	2SC4399-5

$\boxed{\text{F}}$ $\boxed{\text{5}}$

Rank of DC Current Gain (h_{FE})

Transistor Number

Identification With Two Letters and One Numeral

Use this code and the chart for component identification.

Letter	Transistor Number
ES	2SA1745

Example:

Code	Number
ES6	2SA1745-6

$\boxed{\text{ES}}$ $\boxed{\text{6}}$

Rank of DC Current Gain (h_{FE})

Transistor Number

Identification With One Letter and Four Numerals

Use this code and the chart for component identification.

Letter	Transistor Number
B1202	2SB1202

Example:

Code	Number
B1202S	2SB1202-S

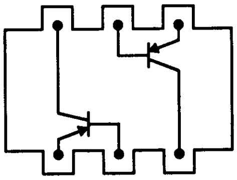
$\boxed{\text{B1202}}$ $\boxed{\text{S}}$

Rank of DC Current Gain (h_{FE})

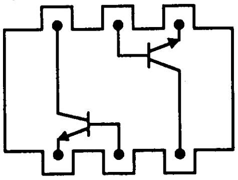
Transistor Number

Leadless Transistors Internal Connection Circuit

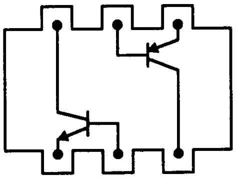
Code 101, IMT1, 5K



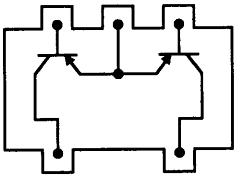
Code 5H



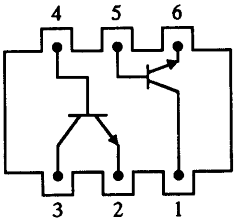
Code 5C



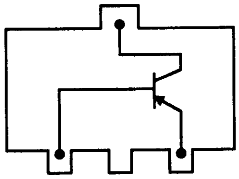
Code S1



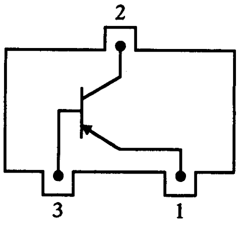
Code 5L



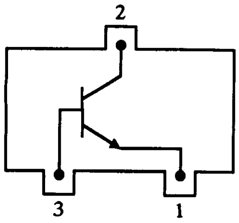
Code B1202



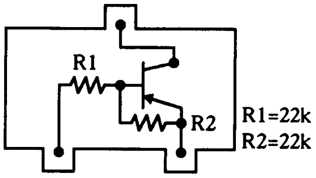
Code M6, ES6, ES7, B7, BR (2SB1218A), BL, FL



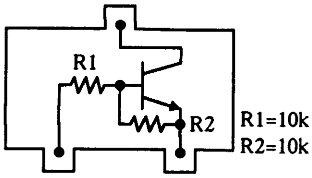
Code L6, ZR BR (2SC4081)



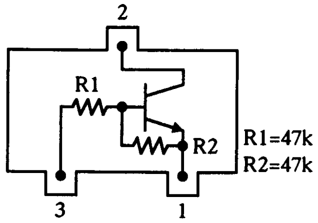
Code CL, 6B, 15


R1
R2
R1=22k
R2=22k

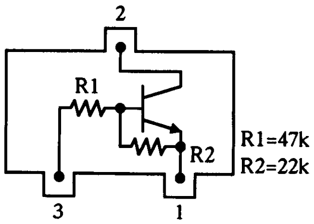
Code EY, 14


R1
R2
R1=10k
R2=10k

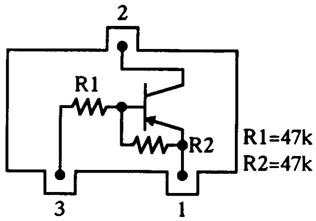
Code BY, 26, 8C


2
R1
R2
3
1
R1=47k
R2=47k

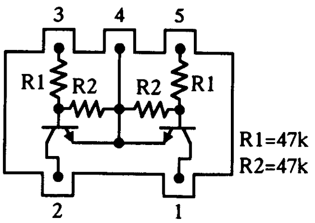
Code 86


2
R1
R2
3
1
R1=47k
R2=22k

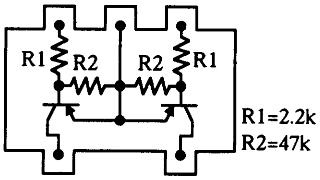
Code BL, 16


2
R1
R2
3
1
R1=47k
R2=47k

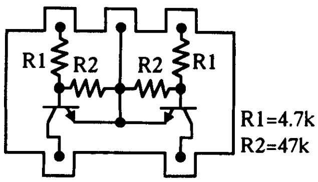
Code G2, 9L,108


3
4
5
R1
R2
R2
R1
2
1
R1=47k
R2=47k

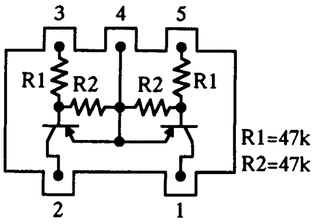
Code A5


R1
R2
R2
R1
R1=2.2k
R2=47k

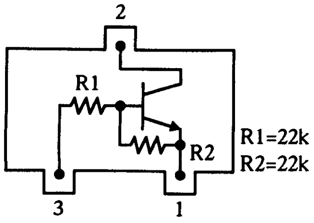
Code G8


R1
R2
R2
R1
R1=4.7k
R2=47k

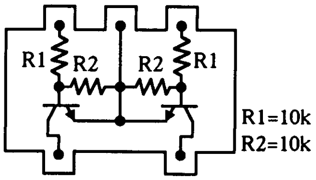
Code 7L


3
4
5
R1
R2
R2
R1
2
1
R1=47k
R2=47k

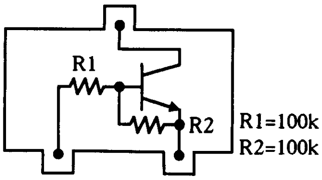
Code CY, 8B, 25


2
R1
R2
3
1
R1=22k
R2=22k

Code G9, 9T,116


R1
R2
R2
R1
R1=10k
R2=10k

Code 29


R1
R2
R1=100k
R2=100k

Leadless Diodes

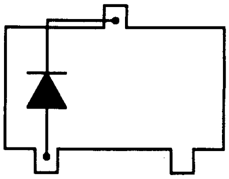
The identification numbers for leadless diodes are indicated by a code on the surface, using one letter and one numeral, one letter, two letters, two letters and one numeral or three numerals.

Code	Diode Number	Code	Diode Number
B	SB05-05-CP-TB	MN	MA141WA-TX
N	DAN202U-T106	MT	MA141WK-TX
A2	DSH015-TL	NP	MA143A-TX
A4	DCF015-TL	M1M	MA721-TX
A6	DCG015-TL	M3H	MA721WA-TX
C3	1SS302-TE85L	822	RD8.2M-T1BB2
W6	DCG010-TL	8.2A	MA3082WA-TX
MH	MA141K-TX	8.2M	MA3082-M-TW

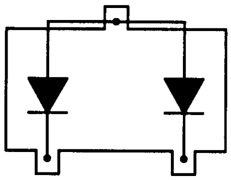
M1M, M3H: Schottky Barrier Diode

The above diodes have the following internal block structures.

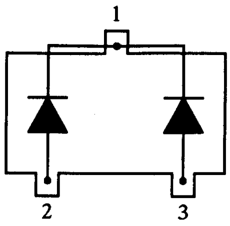
Code B



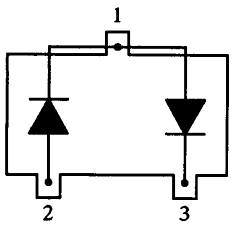
Code A4



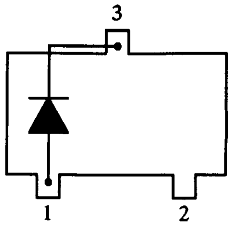
Code N, A6, W6



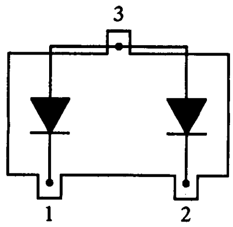
Code C3



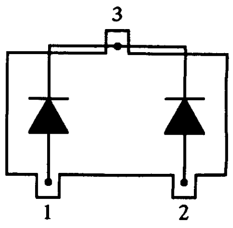
Code MH



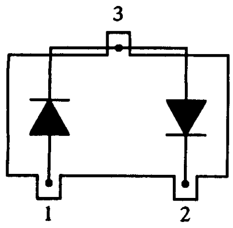
Code MN



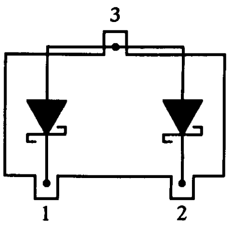
Code MT



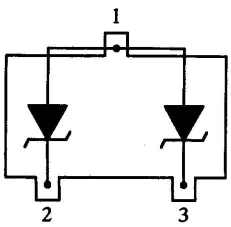
Code NP



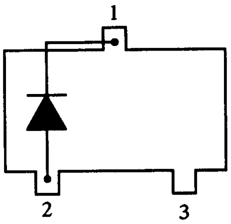
Code M3H



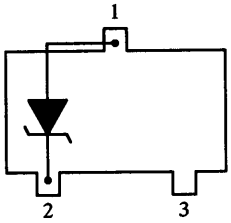
Code 8.2A



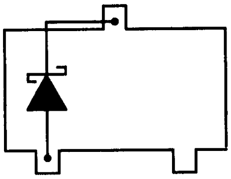
Code A2



Code 822, 8.2M



Code M1M



Leadless Resistors

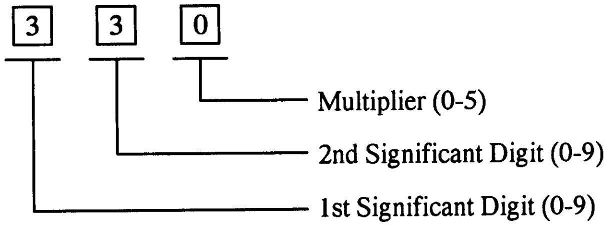
The resistor value is indicated on the surface of the component, using a three-digit number.

Identification for Three Digit Numbers

Read the code following the same procedure used as when reading the color code of a discrete resistor.

Example:

Code	Value
1R2	1 + 0.2= 1.2 ohms (R : Decimal point)
330	$33 \times 10^0 = 33$ ohms
561	$56 \times 10^1 = 560$ ohms
123	$12 \times 10^3 = 12$ kohms

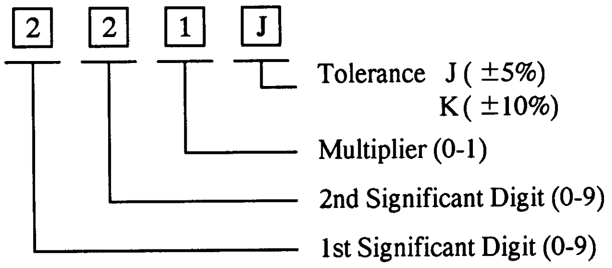

3
3
0
Multiplier (0-5)
2nd Significant Digit (0-9)
1st Significant Digit (0-9)

Leadless Coils

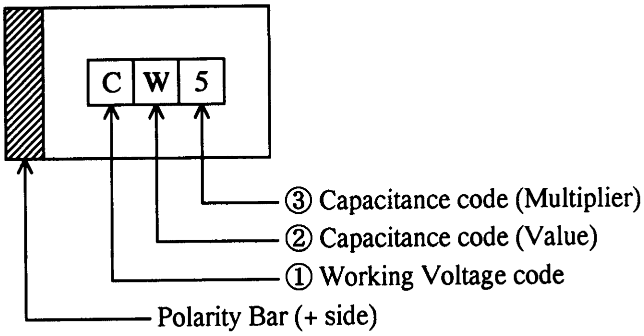
The coil value is indicated on the surface of the component, using three numerals and one letter.

Example:

Code	Value
2R2J	2.2 μH
220J	22 μH
221J	220 μH


2
2
1
J
Tolerance J (±5%)
K (±10%)
Multiplier (0-1)
2nd Significant Digit (0-9)
1st Significant Digit (0-9)

Leadless Tantalum (1)


C
W
5
③ Capacitance code (Multiplier)
② Capacitance code (Value)
① Working Voltage code
Polarity Bar (+ side)

① W.V. code

Code	G	J	A	C	D	E	V
Working Voltage (V)	4	6.3	10	16	20	25	35

② Capacitance code (Value)

Code	A	E	J	N	S	W
Value	1	1.5	2.2	3.3	4.7	6.8

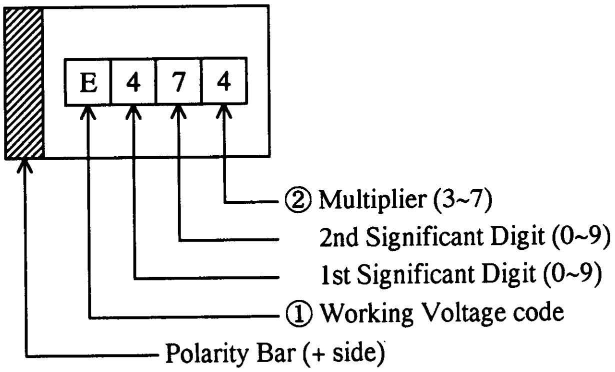
③ Capacitance code (Multiplier)

Code	5	6	7
Multiplier	10^5	10^6	10^7

Example:

Code	Value	
CW5	0.68 μF	16V
AJ6	2.2 μF	10V

Leadless Tantalum (2)


E
4
7
4
② Multiplier (3~7)
2nd Significant Digit (0~9)
1st Significant Digit (0~9)
① Working Voltage code
Polarity Bar (+ side)

① W.V. code

Code	G	J	A	C	D	E	V
Working Voltage (V)	4	6.3	10	16	20	25	35

② Capacitance code (Multiplier)

Code	3	4	5	6	7
Multiplier	10^3	10^4	10^5	10^6	10^7

Example:

Code	Value	
E474	0.47 μF	25V
C105	1.0 μF	16V
J335	3.3 μF	6.3V

2-2. REMOVAL

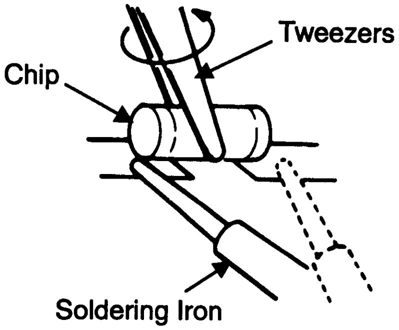
Replacement procedure for Leadless (Chip) Components
The following procedures are recommended for the replacement of the leadless components used in this unit.

1. Preparation for replacement
   a. Soldering Iron
   Use a pencil-type soldering iron using less than 30 watts.
   b. Solder
   Eutectic Solder (Tin 63%, Lead 37%) is recommended.
   c. Soldering time
   Do not apply heat for more than 4 seconds.
   d. Preheating
   Leadless capacitor must be preheated before installation. (130 ℃ ~150 ℃, for about two minutes.)

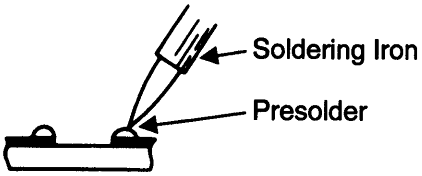
Note: a. Leadless components must not be reused after removal.
b. Excessive mechanical stress and rubbing of the component electrode must be avoided.

2. Removing leadless components
   Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove the leadless component with a twisting motion.

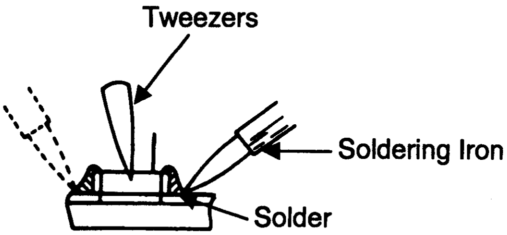
Note: a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
b.Take care not to break the copper foil on the printed board.



3. Installing leadless components
   a. Presolder the contact points of the circuit board.



   b. Press the part downward with tweezers and solder both electrodes as shown below.

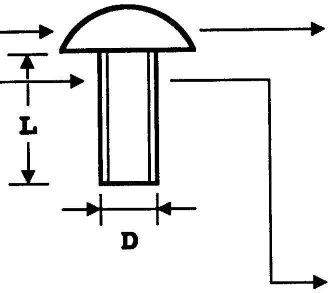


Note: Do not glue the replacement leadless component to the circuit board.

3. DISASSEMBLY

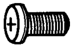
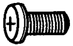
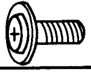
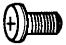
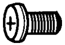
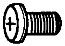
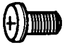
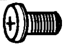
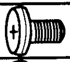
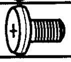
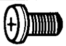
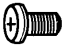
3-1. SCREW/WASHER IDENTIFICATION

Ⓟ Type of head
Ⓢ Type of threaded section
② Diameter (D)
×
⑤ Length (L)

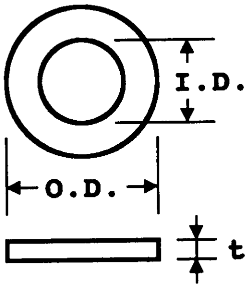


Abbreviation	Name	Shape
No symbol	Special type	
P	Pan head	
B	Binding head	

Abbreviation	Name	Shape
No symbol	Machine screw	
s	Forming tight (for metal)	
p	Forming tight (for plastic)	
b	Forming tight (for metal/plastic)	

Symbol No.	Configuration (Color)	Dimension (mm)
99	(BLACK)	Pp 2 × 5
100	(SILVER)	Ps 1.7 × 4
101	 (BLACK)	Ps 1.7 × 4
102	 (BLUE)	Pb 1.7 × 4
103	(BLACK)	Pp 1.7 × 6
104	(BLACK)	Ps 1.7 × 6
105	(BLACK)	Pp 1.7 × 8
106	(BLACK)	Ps 2 × 6
107		p 2 × 5
108		Bp 2 × 12
109		P 2 × 4
110	 (SILVER)	Pp 1.7 × 4
111	(BLACK)	P 1.4 × 2.5
112	(BLACK)	P 1.4 × 3
113	(YELLOW)	P 2 × 6.5
114	(YELLOW)	Ps 1.4 × 1.6
115	 (YELLOW)	Ps 1.4 × 2.2
116	 (YELLOW)	Ps 1.4 × 3.3
117	 (BLACK)	Pp 1.4 × 2
118	 (SILVER)	Pp 1.4 × 3.5
119	 (BLACK)	1.4 × 2.5
120	 (YELLOW)	1.4 × 3
121		Ps 2.6 × 3
122		Ps 3 × 5
123		Pb 2.6 × 10
124	 (SILVER)	Pp 1.7 × 3
125	(YELLOW)	p 1.4 × 3.5
126	 (SILVER)	Pp 1.7 × 5

【Washer Classification】



Symbol No.	Configuration	Dimension (mm)
131		O.D.: 3.0 I.D.: 1.2 t: 0.3
132		O.D.: 2.7 I.D.: 1.0 t: 0.25
133		O.D.: 3.2 I.D.: 1.45 t: 0.3
134		O.D.: 3.0 I.D.: 1.2 t: 0.13
135		O.D.: 3.0 I.D.: 0.9 t: 0.3

Note:

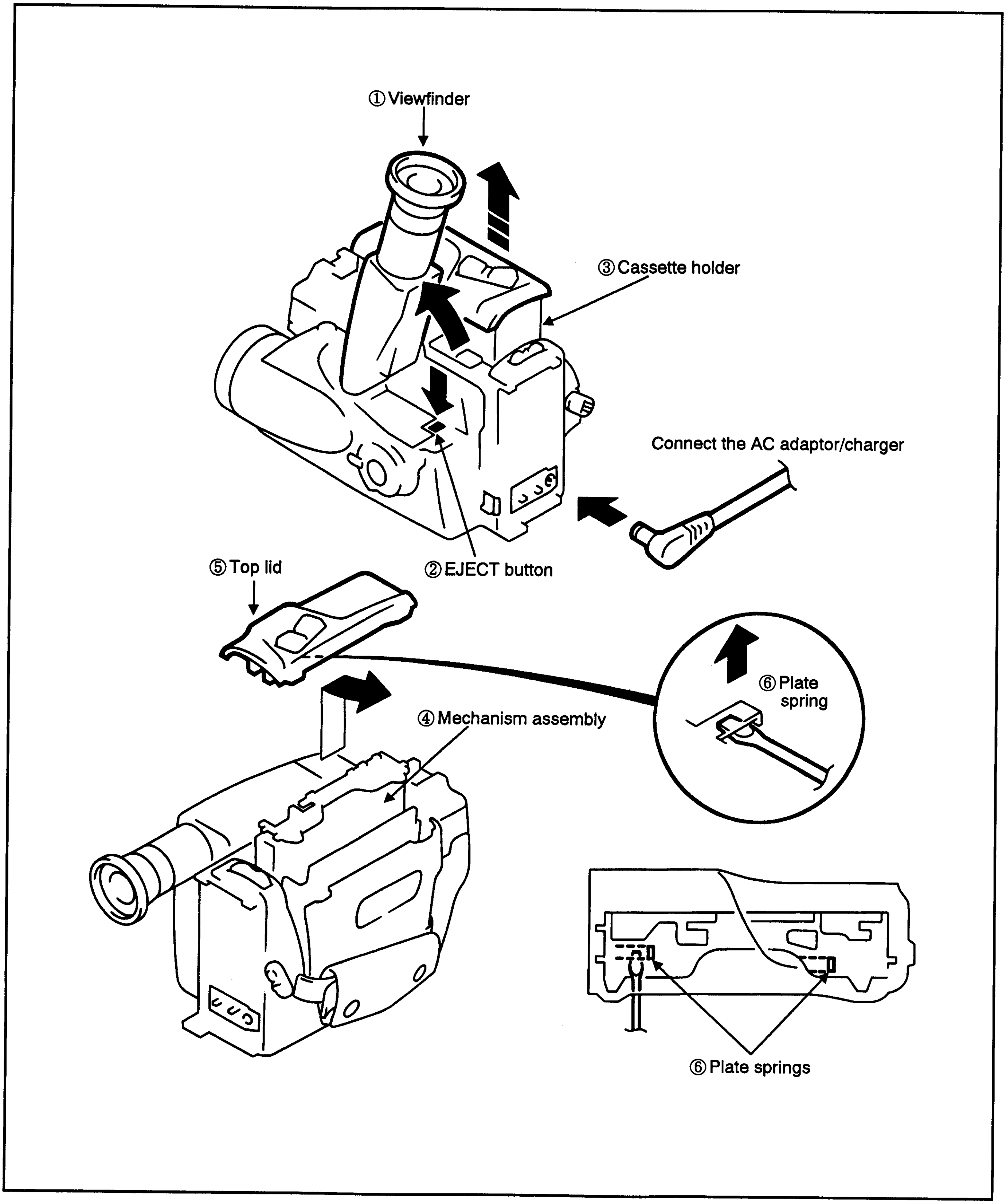
Symbol No. 99 ~ 107:	For cabinet
Symbol No. 108 ~ 110, 124, 126:	For camera block
Symbol No. 111 ~ 120, 125:	For mechanism
Symbol No. 121 ~ 123:	For AC adaptor/charger
Symbol No. 131 ~ 135:	For mechanism

Symbol No. 124 and 126 are for VM-EX33P only.

3-2. REMOVAL OF TOP LID

1. Lift up the viewfinder ①, and then press the EJECT button ② to open the cassette holder ③.
2. Insert a flat-tipped screwdriver between the mechanism assembly ④ and the top lid ⑤, and then while pushing both the left and right plate springs ⑥ upward, pull the top lid ⑤ toward you to remove it.

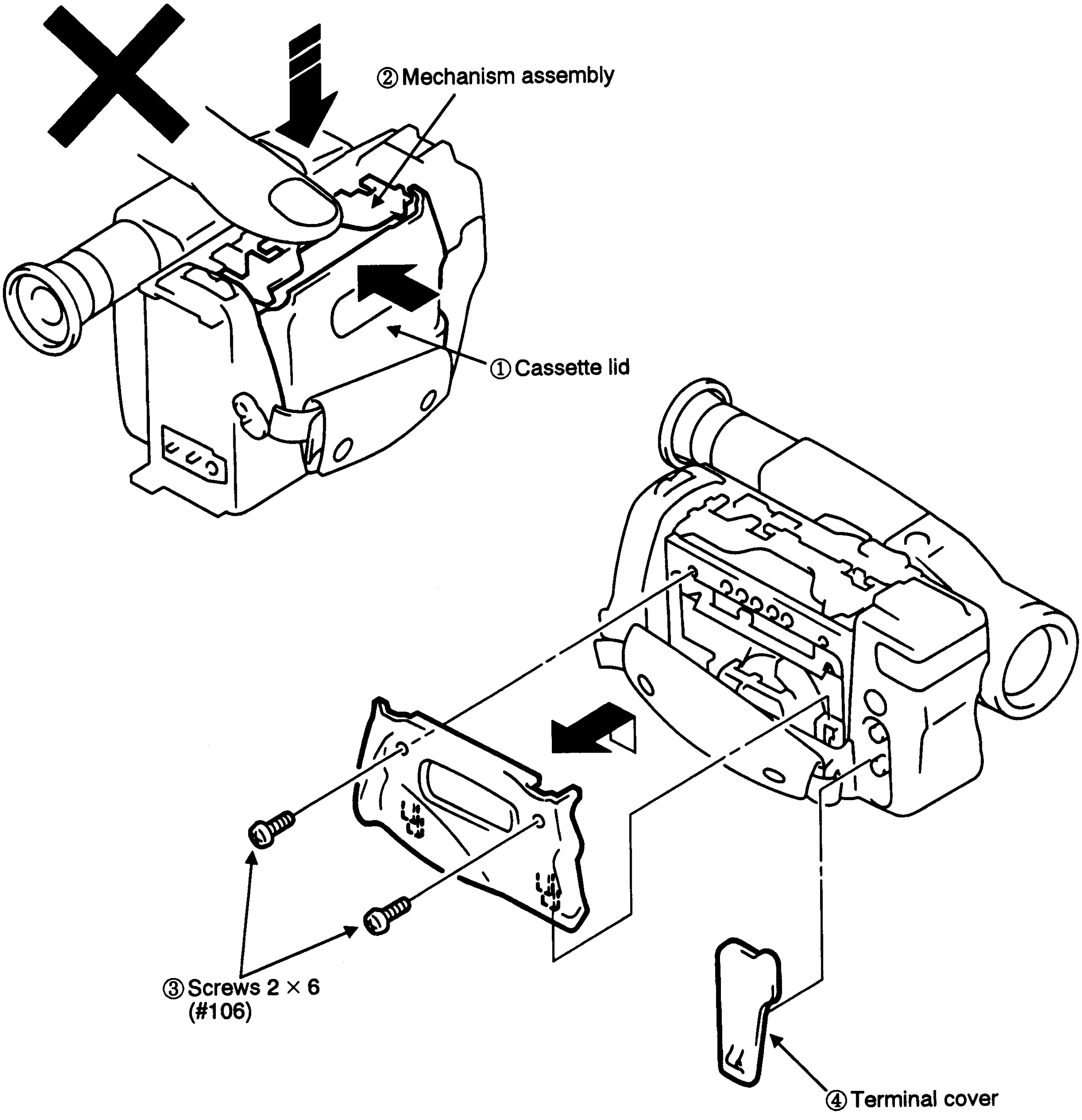
- To install the top lid ⑤, place it on top of the mechanism assembly ④, and then slide it away from you while pressing it down until it clicks into place.
- If the power supply is interrupted because of a blown fuse, the cassette holder will not open. In this case, first remove the cassette lid, and then remove the top lid ⑤.



①Viewfinder
③Cassette holder
Connect the AC adaptor/charger
⑤Top lid
②EJECT button
⑥Plate spring
④Mechanism assembly
⑥Plate springs

3-3. REMOVAL OF CASSETTE LID AND TERMINAL COVER

1. Press the cassette lid ① to close the cassette holder, and then lower the mechanism assembly ②.
- Because the upper section of the mechanism is extremely delicate, do not apply excessive force at this time.
2. Remove the two screws ③, and then remove the cassette lid ①.
3. Remove the terminal cover ④.

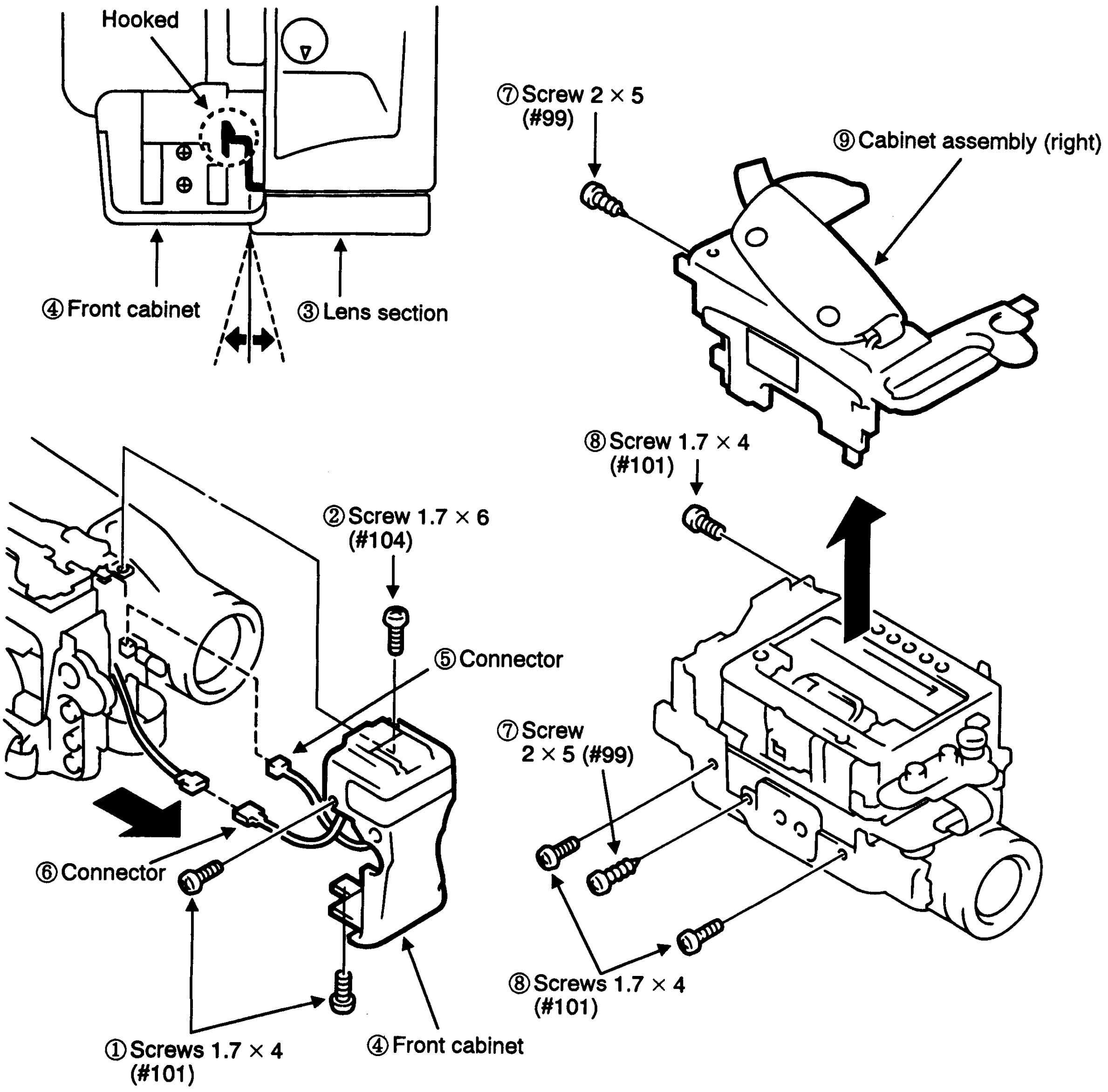

②Mechanism assembly
①Cassette lid
③Screws 2 × 6
(#106)
④Terminal cover

3-4. REMOVAL OF FRONT CABINET AND CABINET ASSEMBLY (RIGHT)

1. Remove the three screws ① and ②.
2. Grasp the lens section ③ with one hand and the front cabinet ④ with the other hand, and then pull them apart to disengage the hook. Then remove the front cabinet ④ from the front of the camcorder.

- The two connectors ⑤ (for the microphone) and ⑥ (for the accessory shoe) should be disconnected at this time also.

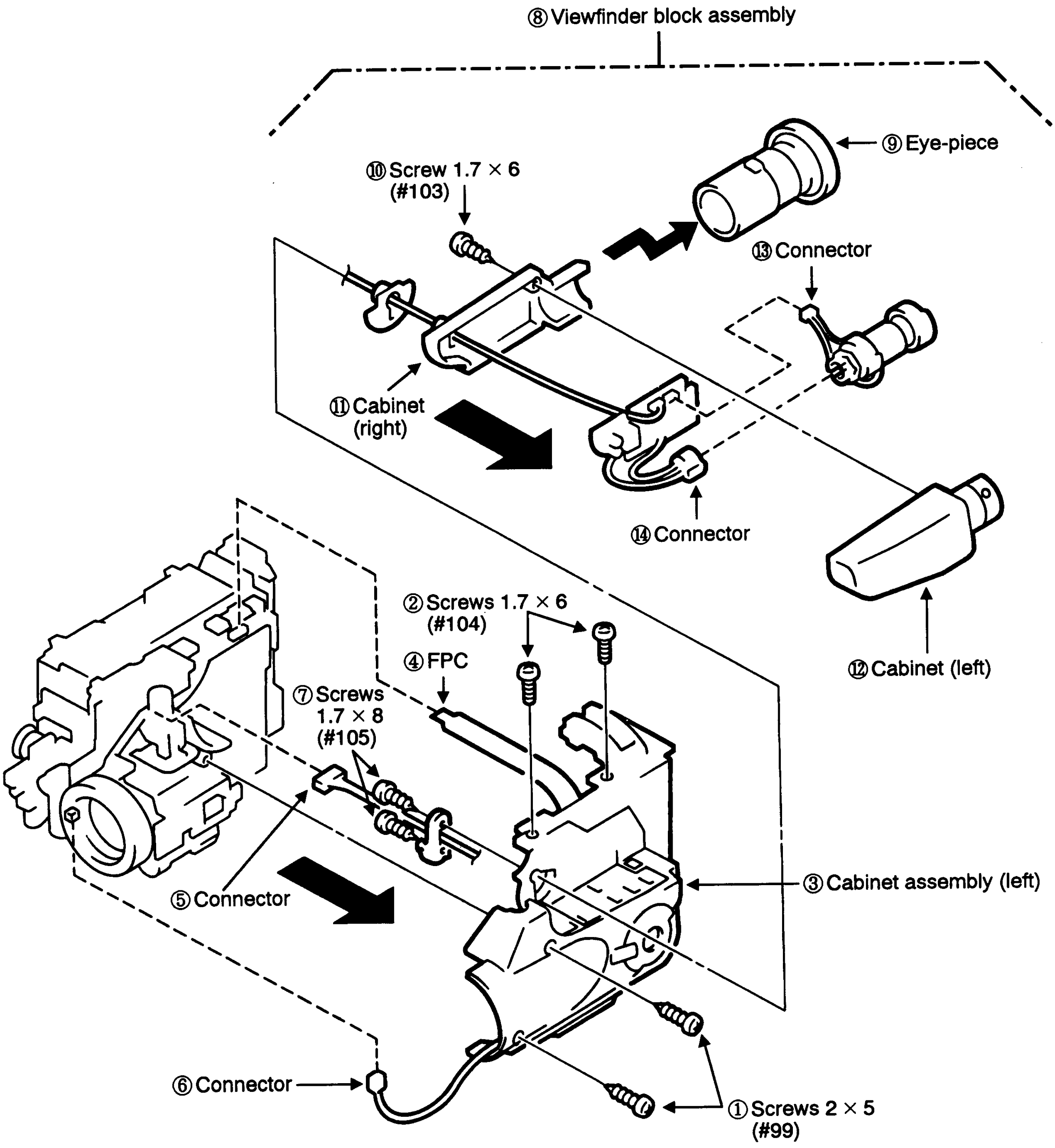
3. Remove the five screws ⑦ and ⑧, and then remove the cabinet assembly (right) ⑨.



Hooked
④ Front cabinet
③ Lens section
⑦ Screw 2 × 5
(#99)
⑨ Cabinet assembly (right)
⑧ Screw 1.7 × 4
(#101)
② Screw 1.7 × 6
(#104)
⑤ Connector
⑦ Screw
2 × 5 (#99)
⑥ Connector
⑧ Screws 1.7 × 4
(#101)
① Screws 1.7 × 4
(#101)
④ Front cabinet

3-5. REMOVAL OF CABINET ASSEMBLY (LEFT) AND VIEWFINDER

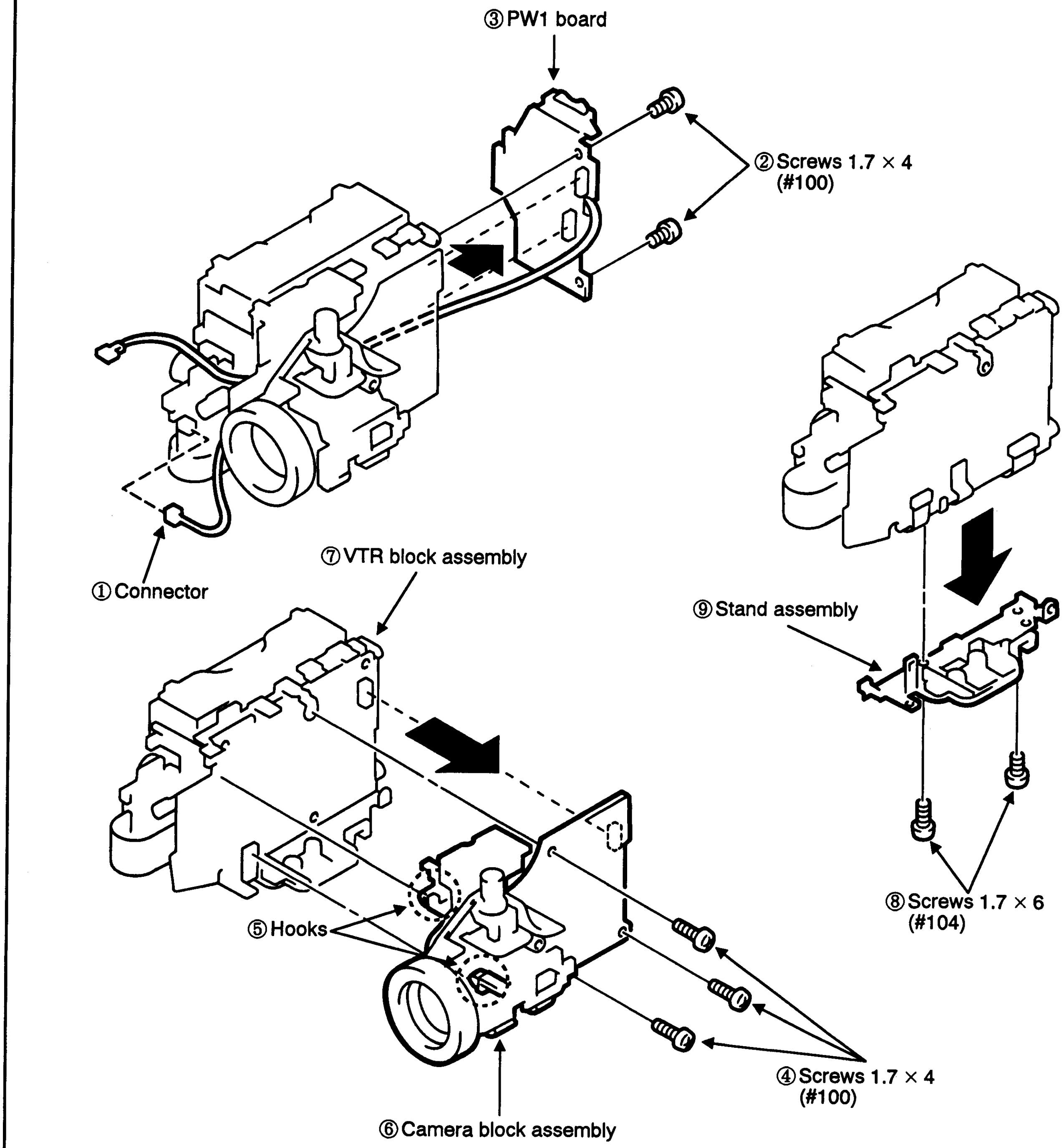
1. Remove the four screws ① and ②, and then remove the cabinet assembly (left) ③.
   - The FPC (Flexible Printed Circuit) ④ and the two connectors ⑤ (for the viewfinder) and ⑥ (for the lithium battery) should be disconnected at this time also.
2. Remove the two screws ⑦, and then remove the viewfinder block assembly ⑧ from the cabinet assembly (left) ③.
3. Pull out the eye-piece ⑨ fully, and then push it back slightly. Turn it toward the left (in the direction of the arrow), and then remove it.
4. Remove the screw ⑩, and then remove the cabinets (right) ⑪ and (left) ⑫ of the viewfinder.
5. Disconnect the two connectors ⑬ and ⑭ to separate the viewfinder board section.


⑧ Viewfinder block assembly
⑨ Eye-piece
⑩ Screw 1.7 × 6 (#103)
⑬ Connector
⑪ Cabinet (right)
⑭ Connector
⑫ Cabinet (left)
② Screws 1.7 × 6 (#104)
④ FPC
⑦ Screws 1.7 × 8 (#105)
⑤ Connector
③ Cabinet assembly (left)
⑥ Connector
① Screws 2 × 5 (#99)

3-6. REMOVAL OF PW1 BOARD, CAMERA BLOCK ASSEMBLY AND STAND ASSEMBLY

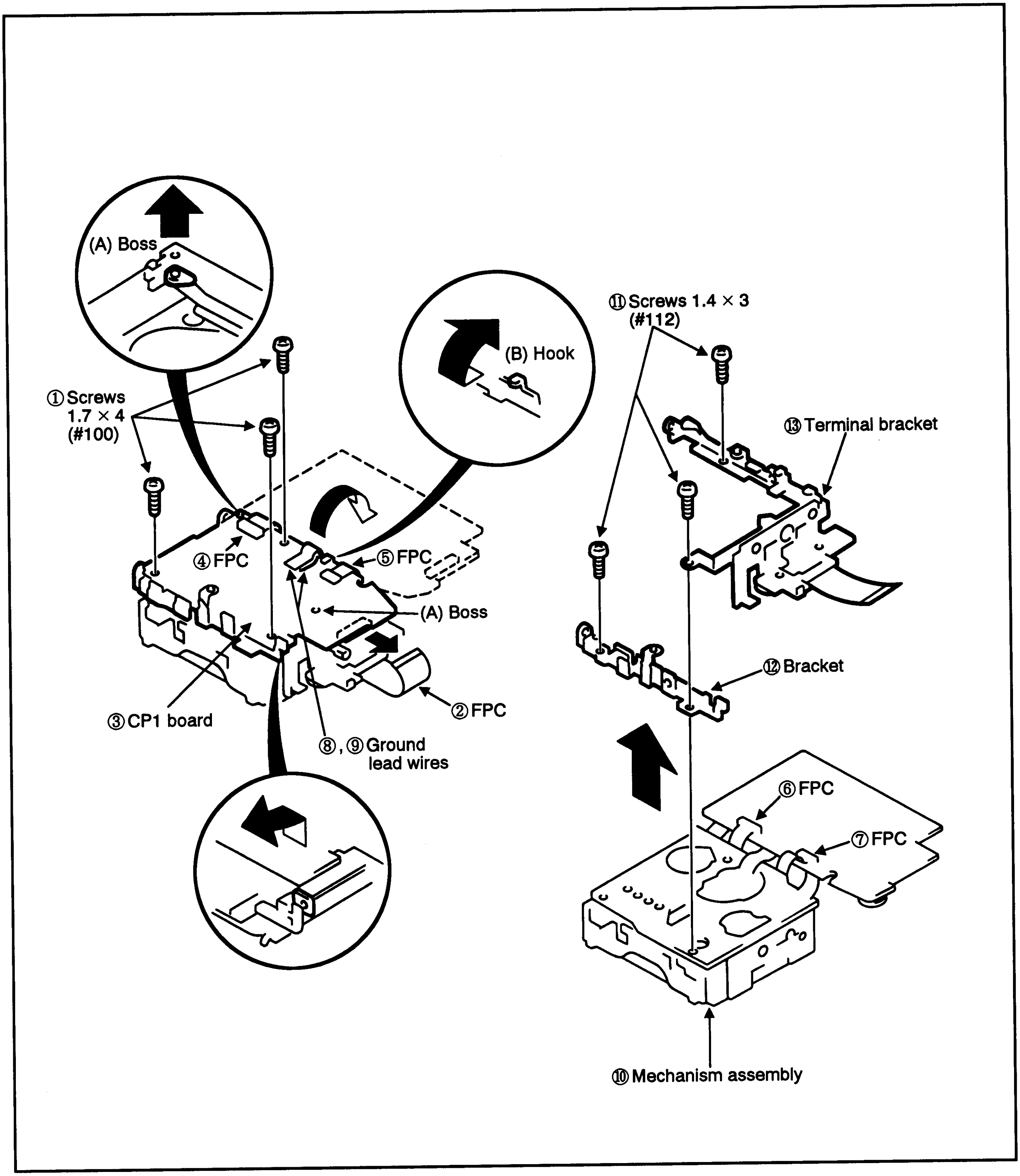
1. Disconnect the connector ① and the two screws ②, and then remove the PW1 board ③.
2. Remove the three screws ④, and then while pushing the hooks ⑤, remove the camera block assembly ⑥ from the VTR block assembly ⑦.
3. Remove the two screws ⑧, and then remove the stand assembly ⑨.

- When carrying out the steps in "**5. ELECTRICAL ADJUSTMENT**," remove the camera block assembly ⑥ but not the PW1 board ③.


③PW1 board
②Screws 1.7 × 4 (#100)
①Connector
⑦VTR block assembly
⑨Stand assembly
⑧Screws 1.7 × 6 (#104)
⑤Hooks
④Screws 1.7 × 4 (#100)
⑥Camera block assembly

3-7. REMOVAL OF CP1 BOARD AND MECHANISM ASSEMBLY

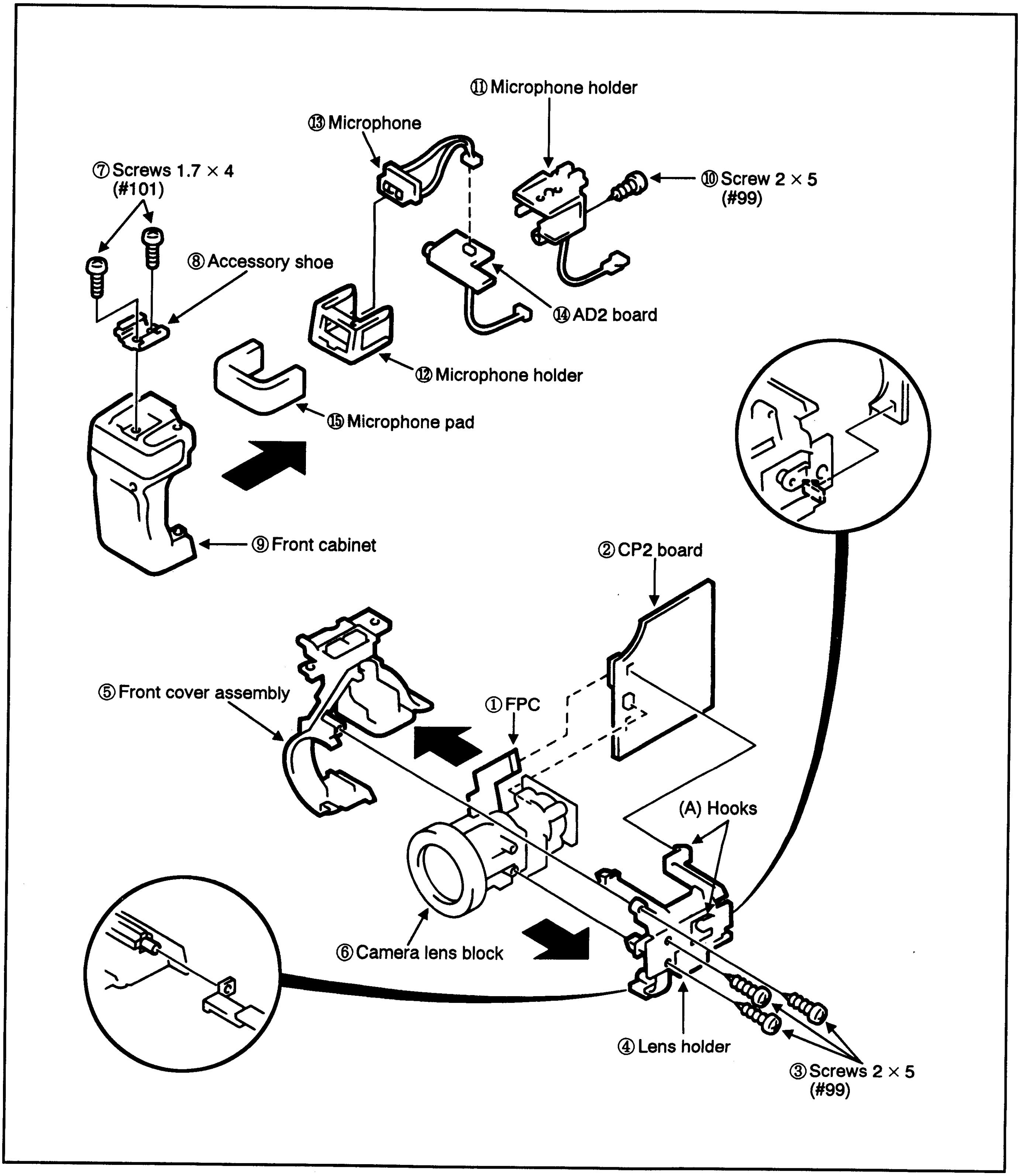
1. Remove the three screws ①, and then remove the FPC (Flexible Printed Circuit) ②.
2. The CP1 board ③ is secured to the mechanism assembly ⑩ by means of positioning bosses (A) and a hook (B). Therefore, slightly raise the CP1 board ③ and slide it to disengage it from the bosses (A) and the hook (B). In this condition, the CP1 board ③ can be turned 180°.
3. Disconnect the four FPCs ④, ⑤, ⑥ and ⑦, disconnect the two ground lead wires ⑧ and ⑨ which are soldered to the shield case of the CP1 board ③, and then remove the CP1 board ③ from the mechanism assembly ⑩.
4. Remove the three screws ⑪, and then remove the bracket ⑫, terminal bracket ⑬ and mechanism assembly ⑩.


(A) Boss
(B) Hook
① Screws 1.7 × 4 (#100)
④ FPC
⑤ FPC
(A) Boss
② FPC
③ CP1 board
⑧, ⑨ Ground lead wires
⑪ Screws 1.4 × 3 (#112)
⑬ Terminal bracket
⑫ Bracket
⑥ FPC
⑦ FPC
⑩ Mechanism assembly

3-8. REMOVAL OF CAMERA LENS BLOCK, CP2 BOARD AND MICROPHONE UNIT

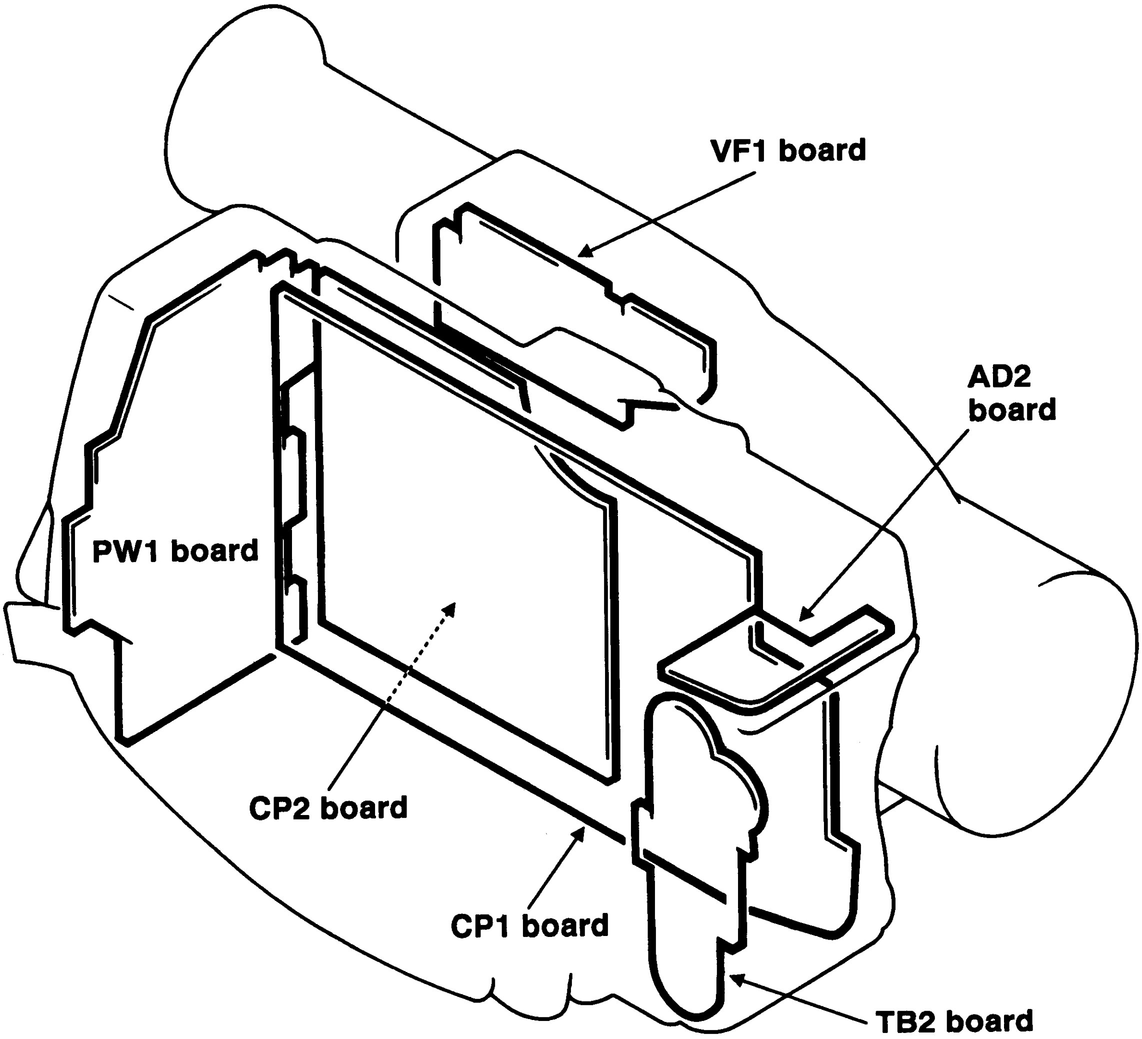
1. Remove the FPC ①, and then while pushing the hooks (A), remove the CP2 board ②.
2. Remove the three screws ③, and then remove the lens holder ④ and front cover assembly ⑤ from the camera lens block ⑥.
3. Remove the two screws ⑦, and then remove the accessory shoe ⑧ from the front cabinet ⑨.
4. Remove the screw ⑩, and then remove the microphone holder ⑪ and ⑫, microphone ⑬, AD2 board ⑭ and microphone pad ⑮.

Note: For detailed information on how to remove the components, please refer to the **"Parts List"** manual.


⑪ Microphone holder
⑬ Microphone
⑦ Screws 1.7 × 4 (#101)
⑩ Screw 2 × 5 (#99)
⑧ Accessory shoe
⑭ AD2 board
⑫ Microphone holder
⑮ Microphone pad
⑨ Front cabinet
② CP2 board
⑤ Front cover assembly
① FPC
(A) Hooks
⑥ Camera lens block
④ Lens holder
③ Screws 2 × 5 (#99)

4. BLOCK DIAGRAM

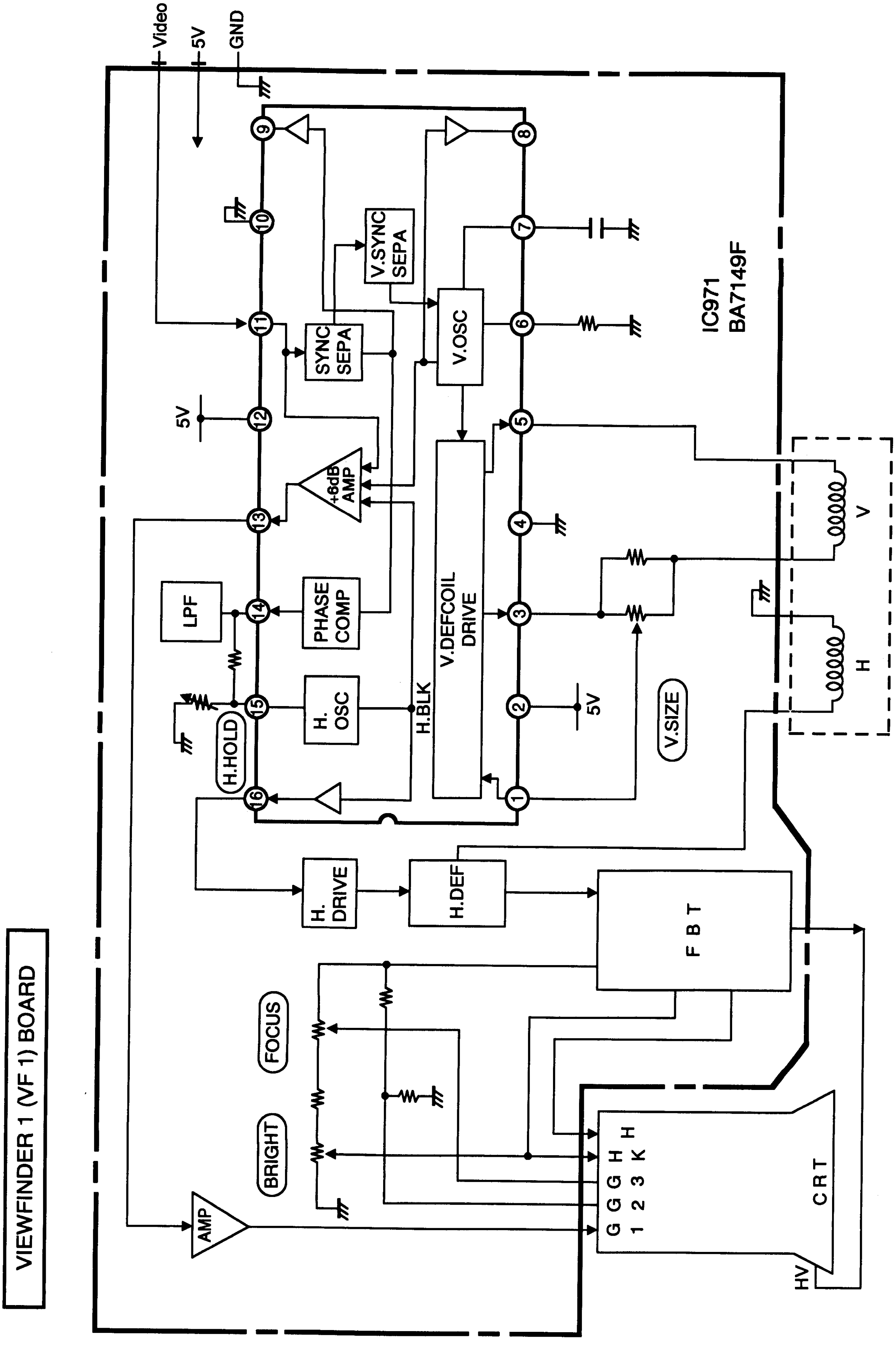
4-1. BOARD LOCATION


VF1 board
AD2 board
PW1 board
CP2 board
CP1 board
TB2 board

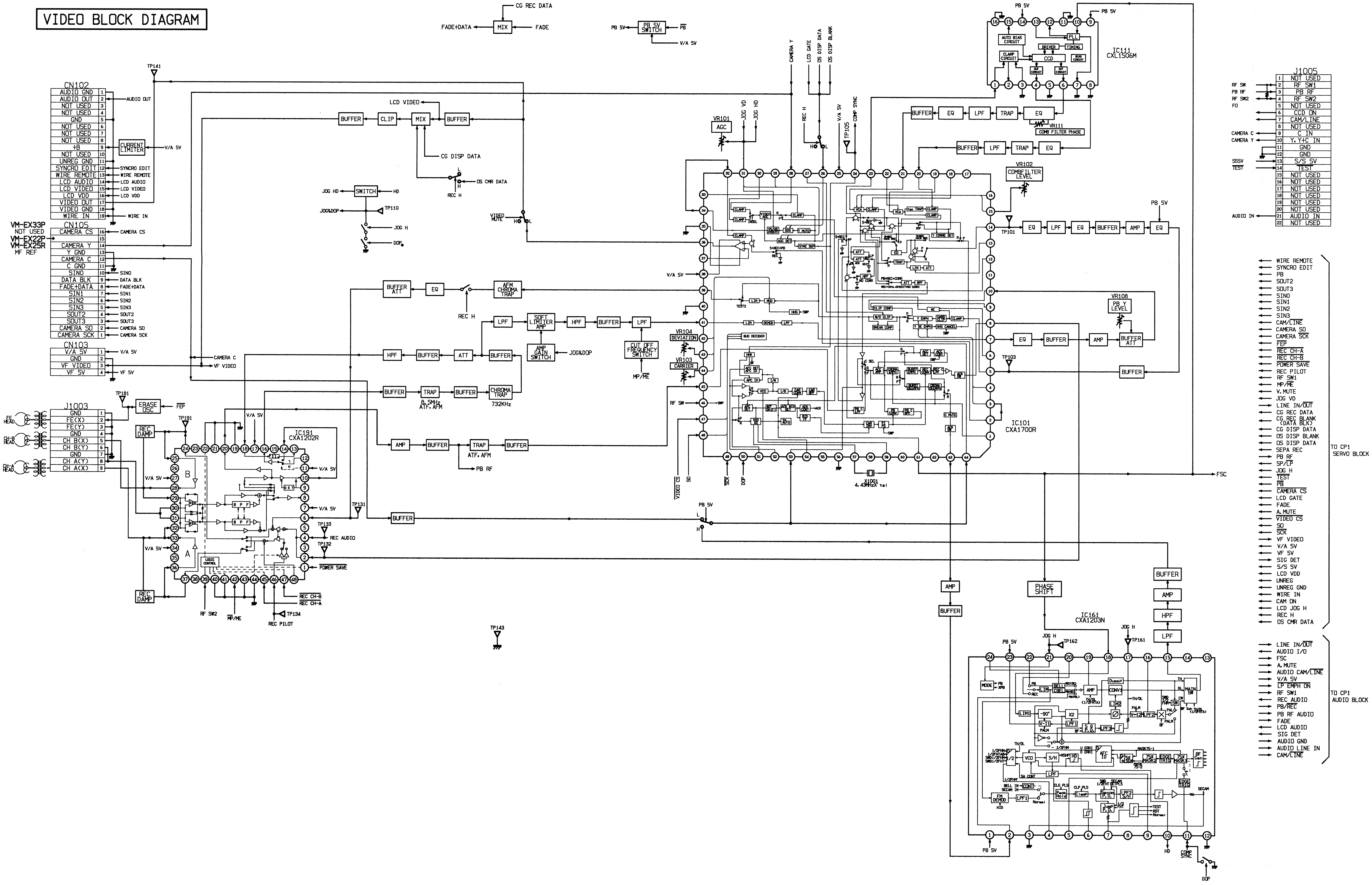
CP2 BOARD:	CAMERA CIRCUIT
TB2 BOARD:	TERMINAL CIRCUIT
CP1 BOARD:	SERVO/SYSTEM CONTROL CIRCUIT, VIDEO CIRCUIT & AUDIO CIRCUIT
PW1 BOARD:	POWER CIRCUIT
AD2 BOARD:	MICROPHONE CIRCUIT
VF1 BOARD:	VIEWFINDER CIRCUIT
MA1 BOARD:	POWER SUPPLY/CHARGER CIRCUIT (in the AC adaptor/charger)

4-2. BLOCK DIAGRAM

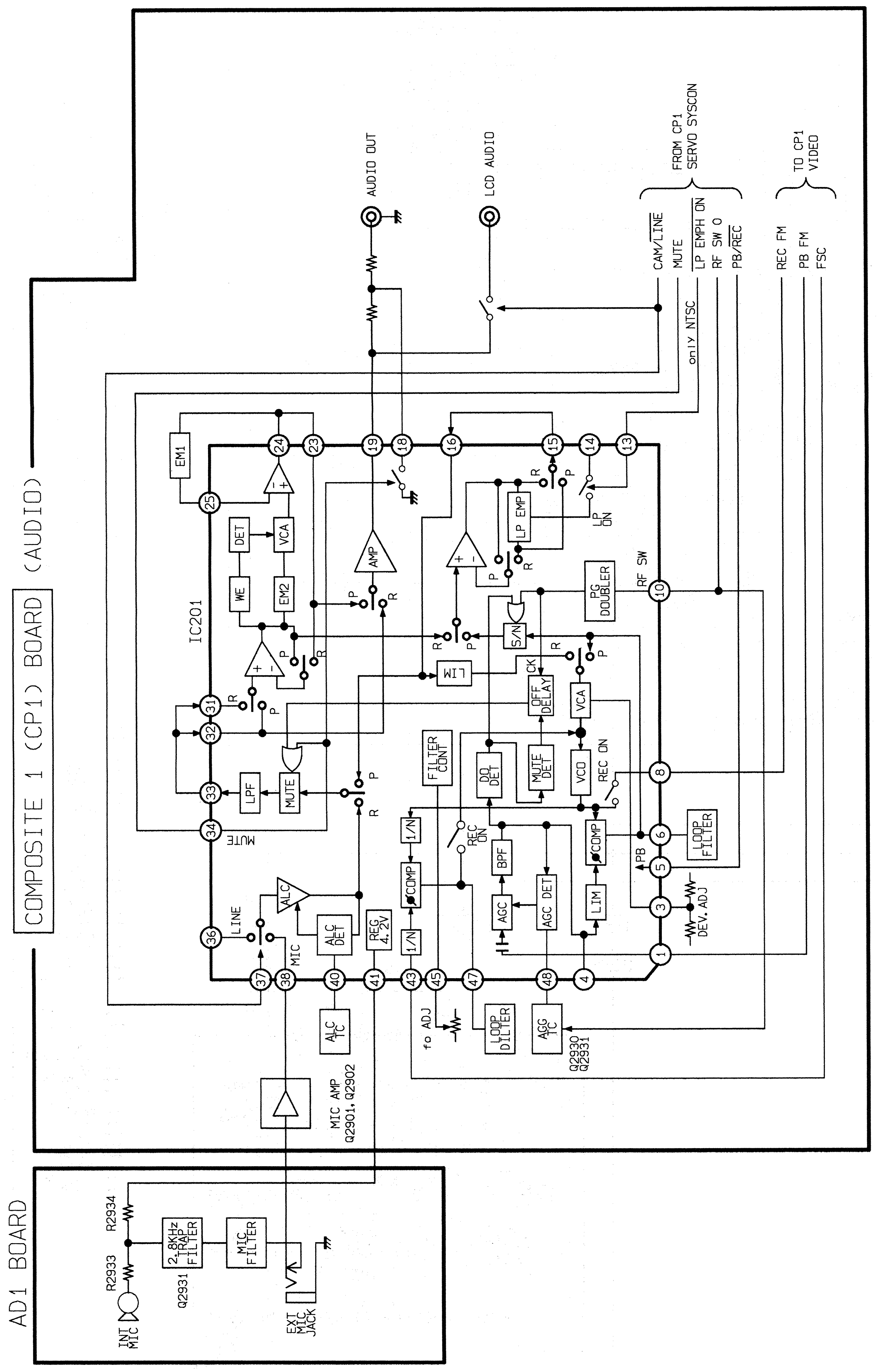
1. VIEWFINDER BLOCK DIAGRAM


Video
5V
GND
9
10
11
12
13
14
15
16
8
7
6
5
4
3
2
1
V.SYNC SEPA
SYNC SEPA
V.OSC
IC971
BA7149F
5V
+6dB AMP
LPF
PHASE COMP
H. OSC
H.BLK
V.DEFCOIL DRIVE
H.HOLD
5V
V.SIZE
V
H
DY
H. DRIVE
H.DEF
F B T
FOCUS
BRIGHT
AMP
G 1
G 2
G 3
K
H
CRT
HV
VIEWFINDER 1 (VF 1) BOARD

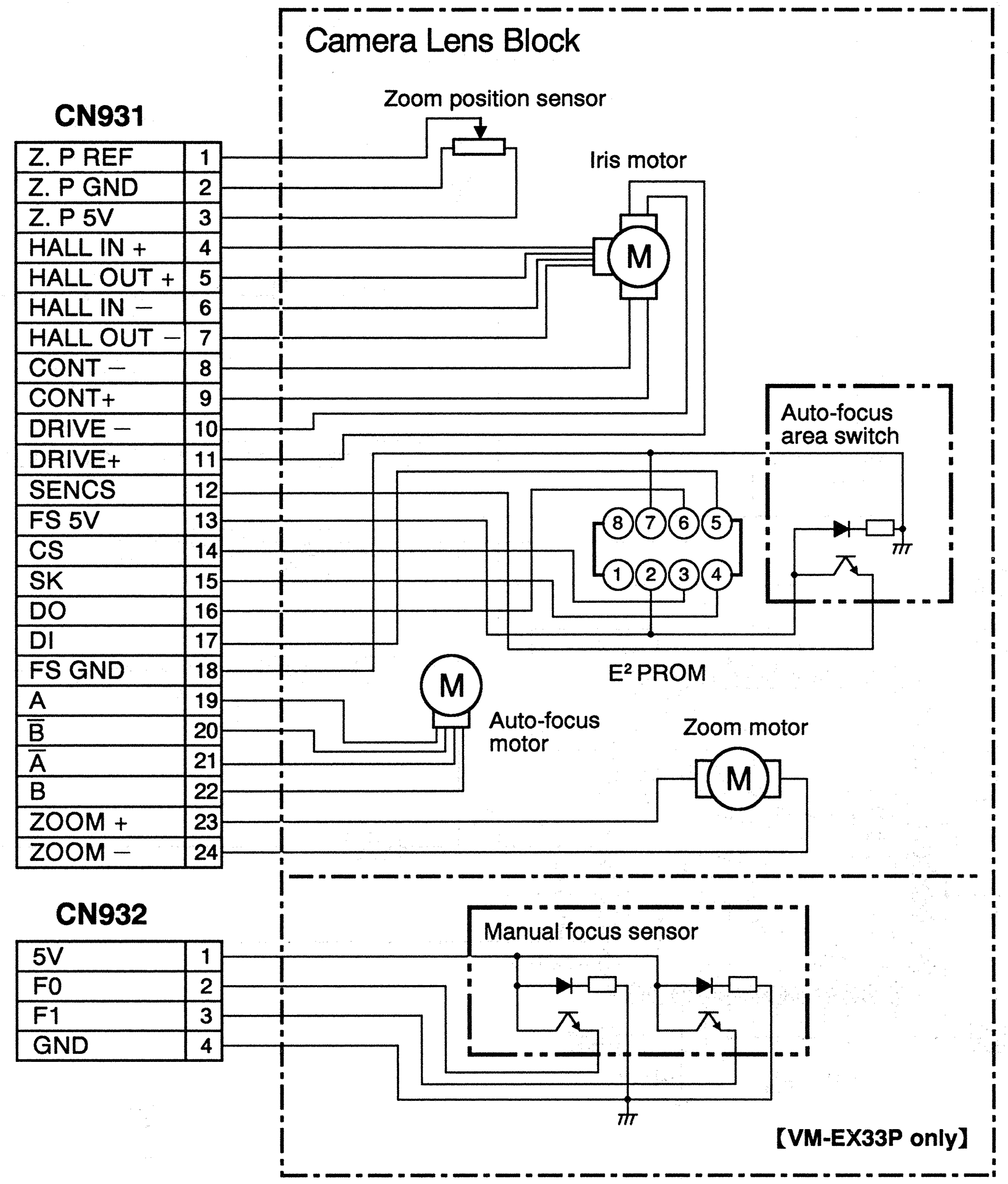
4. VIDEO BLOCK DIAGRAM


VIDEO BLOCK DIAGRAM
CN102
AUDIO GND
AUDIO OUT
NOT USED
NOT USED
GND
NOT USED
NOT USED
NOT USED
+B
NOT USED
UNREG GND
SYNCRO EDIT
WIRE REMOTE
LCD AUDIO
LCD VIDEO
LCD VDD
VIDEO OUT
VIDEO GND
WIRE IN
CURRENT LIMITER
V/A 5V
VM-EX33P
NOT USED
VM-EX22P
VM-EX25R
MF REF
CN105
CAMERA CS
CAMERA Y
Y GND
CAMERA C
C GND
SIN0
DATA BLK
FADE+DATA
SIN1
SIN2
SIN3
SOUT2
SOUT3
CAMERA SO
CAMERA SCK
CN103
V/A 5V
GND
VF VIDEO
VF 5V
J1003
FE(X)
FE(Y)
CH B(X)
CH B(Y)
CH A(Y)
CH A(X)
FE HEAD
CH-B HEAD
CH-A HEAD
TP141
TP181
ERASE OSC
FEP
REC DAMP
TP191
IC191
CXA1202R
LOGIC CONTROL
B P F
POWER SAVE
REC CH-B
REC CH-A
RF SW2
MP/ME
REC PILOT
TP134
TP131
TP133
TP132
REC AUDIO
CG REC DATA
FADE+DATA
MIX
FADE
PB 5V SWITCH
PB 5V
PB
LCD VIDEO
BUFFER
CLIP
CG DISP DATA
OS CMR DATA
REC H
JOG HD
SWITCH
HD
JOG&DOP
TP110
JOG H
DOP
VIDEO MUTE
BUFFER ATT
EQ
AFM CHROMA TRAP
LPF
SOFT LIMITER AMP
HPF
AMP GAIN SWITCH
ATT
TRAP
8.5MHz ATF, AFM
CHROMA TRAP
732KHz
AMP
ATF, AFM
PB RF
CUT OFF FREQUENCY SWITCH
VR104 DEVIATION
VR103 CARRIER
VR101 AGC
JOG VD
CAMERA Y
LCD GATE
OS DISP DATA
OS DISP BLANK
V/A 5V
COMP SYNC
TP105
RF SW
VIDEO CS
SO
SCK
X1001
4.43MHz X tal
IC101
CXA1700R
TP101
TP103
VR102
COMBFILTER LEVEL
VR108
PB Y LEVEL
VR111
COMB FILTER PHASE
IC111
CXL1506M
AUTO BIAS CIRCUIT
CLAMP CIRCUIT
DRIVER
TIMING
PLL
CCD
FSC
PHASE SHIFT
IC161
CXA1203N
TP162
TP161
MAIN SW
FM DEMOD
VCO
S/H
SECAM
J1005
NOT USED
RF SW1
PB RF
RF SW2
NOT USED
CCD ON
CAM/LINE
NOT USED
C IN
Y, Y+C IN
GND
GND
S/S 5V
TEST
NOT USED
NOT USED
NOT USED
NOT USED
NOT USED
NOT USED
AUDIO IN
NOT USED
RF SW
PB RF
RF SW2
FO
CAMERA C
CAMERA Y
SSSV
TEST
AUDIO IN
WIRE REMOTE
SYNCRO EDIT
PB
SOUT2
SOUT3
SIN0
SIN1
SIN2
SIN3
CAM/LINE
CAMERA SO
CAMERA SCK
FEP
REC CH-A
REC CH-B
POWER SAVE
REC PILOT
RF SW1
MP/ME
V. MUTE
JOG VD
LINE IN/OUT
CG REC DATA
CG REC BLANK (DATA BLK)
CG DISP DATA
OS DISP BLANK
OS DISP DATA
SEPA REC
PB RF
SP/LP
JOG H
TEST
PB
CAMERA CS
LCD GATE
FADE
A. MUTE
VIDEO CS
SO
SCK
VF VIDEO
V/A 5V
VF 5V
SIG DET
S/S 5V
LCD VDD
WIRE IN
UNREG
UNREG GND
CAM ON
LCD JOG H
REC H
OS CMR DATA
TO CP1 SERVO BLOCK
LINE IN/OUT
AUDIO I/O
FSC
A. MUTE
AUDIO CAM/LINE
V/A 5V
LP EMPH ON
RF SW1
REC AUDIO
PB/REC
PB RF AUDIO
FADE
LCD AUDIO
SIG DET
AUDIO GND
AUDIO LINE IN
CAM/LINE
TO CP1 AUDIO BLOCK
TP143

5. AUDIO BLOCK DIAGRAM


COMPOSITE 1 (CP1) BOARD (AUDIO)
AD1 BOARD
IC201
AUDIO OUT
LCD AUDIO
FROM CP1 SERVO SYSCON
TO CP1 VIDEO
CAM/LINE
MUTE
LP EMPH ON
RF SW 0
PB/REC
only NTSC
REC FM
PB FM
FSC
EM1
EM2
DET
VCA
WE
AMP
LP EMP
PG DOUBLER
RF SW
S/N
LIM
OFF DELAY
CK
VCA
LPF
MUTE
FILTER CONT
DO DET
MUTE DET
VCO
REC ON
LOOP FILTER
PB
DEV. ADJ
1/N
COMP
BPF
AGC
AGC DET
LIM
COMP
ALC
ALC DET
REG 4.2V
LINE
MIC
ALC TC
fo ADJ
LOOP FILTER
AGC TC
Q2930 Q2931
MIC AMP Q2901, Q2902
R2934
R2933
2.8kHz TRAP FILTER
MIC FILTER
Q2931
INT MIC
EXT MIC JACK
P
R
LP ON

6. CAMERA LENS BLOCK DIAGRAM


Camera Lens Block
CN931
Z. P REF 1
Z. P GND 2
Z. P 5V 3
HALL IN + 4
HALL OUT + 5
HALL IN − 6
HALL OUT − 7
CONT − 8
CONT+ 9
DRIVE − 10
DRIVE+ 11
SENCS 12
FS 5V 13
CS 14
SK 15
DO 16
DI 17
FS GND 18
A 19
B̄ 20
Ā 21
B 22
ZOOM + 23
ZOOM − 24
Zoom position sensor
Iris motor
M
Auto-focus area switch
E² PROM
Auto-focus motor
Zoom motor
CN932
5V 1
F0 2
F1 3
GND 4
Manual focus sensor
【VM-EX33P only】

5. ELECTRICAL ADJUSTMENT

1. CAMERA BLOCK ADJUSTMENT

1-1. TABLE FOR SERVICING TOOLS

Ref. No	Name	Part code
J-1	Color viewer 5,100K	VJ8-0007
J-2	Gray scale (γ = 0.45)	VJ8-0010
J-3	Color bar chart	VJ8-0009
J-4	Siemens star chart	
J-5	Two color temperature conversion filters (LBA8)	VJ8-0002
J-6	Socket pull-out tool	VJ8-0030
J-7	Camera block fixing tool	VJ8-0128
J-8	Pan head	VJ8-0101
J-9	Circuit board connecting tool	VJ8-0132 VJ8-0140
J-10	Extension cord (CP1 to CP2)	VJ8-0139
J-11	Extension cord (CP2 to PW1)	VJ8-0129
J-12	Adjustment controller	VJ8-0103
J-13	Adjustment (–) screwdriver	VJ8-0104

Note: J-1 Color viewer is 100 ~ 110 VAC only.

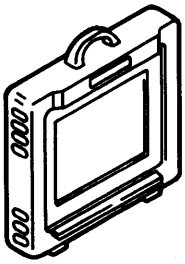
1-2. EQUIPMENTS

1. Vectorscope
2. Oscilloscope
3. Color monitor
4. Digital voltmeter
5. Frequency counter
6. DC regulated power supply

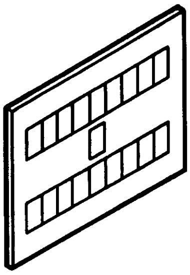
1-3. ADJUSTMENT ITEM AND ORDER

1. Oscillation frequency adjustment
2. Focus position adjustment
3. Zooming curve adjustment
4. CCD driving voltage adjustment
5. PLL voltage provisional adjustment
6. Auto iris level adjustment
7. AGC level adjustment
8. Y level adjustment
9. Chroma balance adjustment
10. Hue and chroma level adjustment
11. 5,100K AWB adjustment
12. 2,800K AWB adjustment
13. PLL voltage adjustment

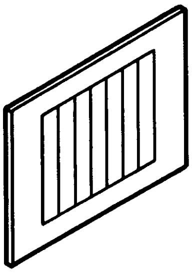
J-1



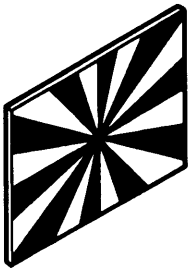
J-2



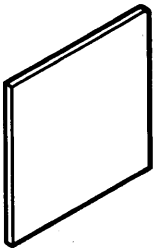
J-3



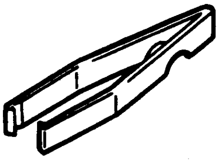
J-4



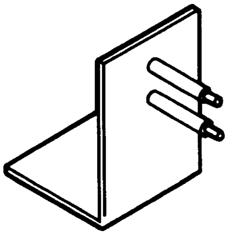
J-5



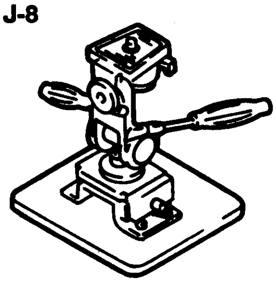
J-6



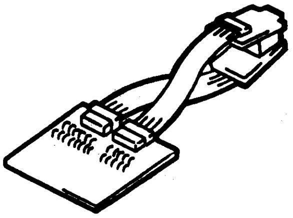
J-7



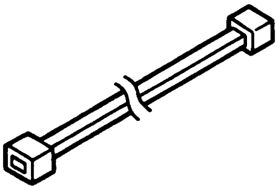
J-8



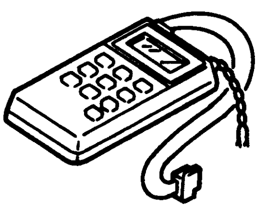
J-9



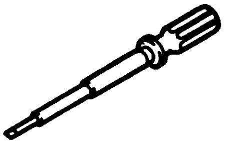
J-10 / J-11



J-12



J-13



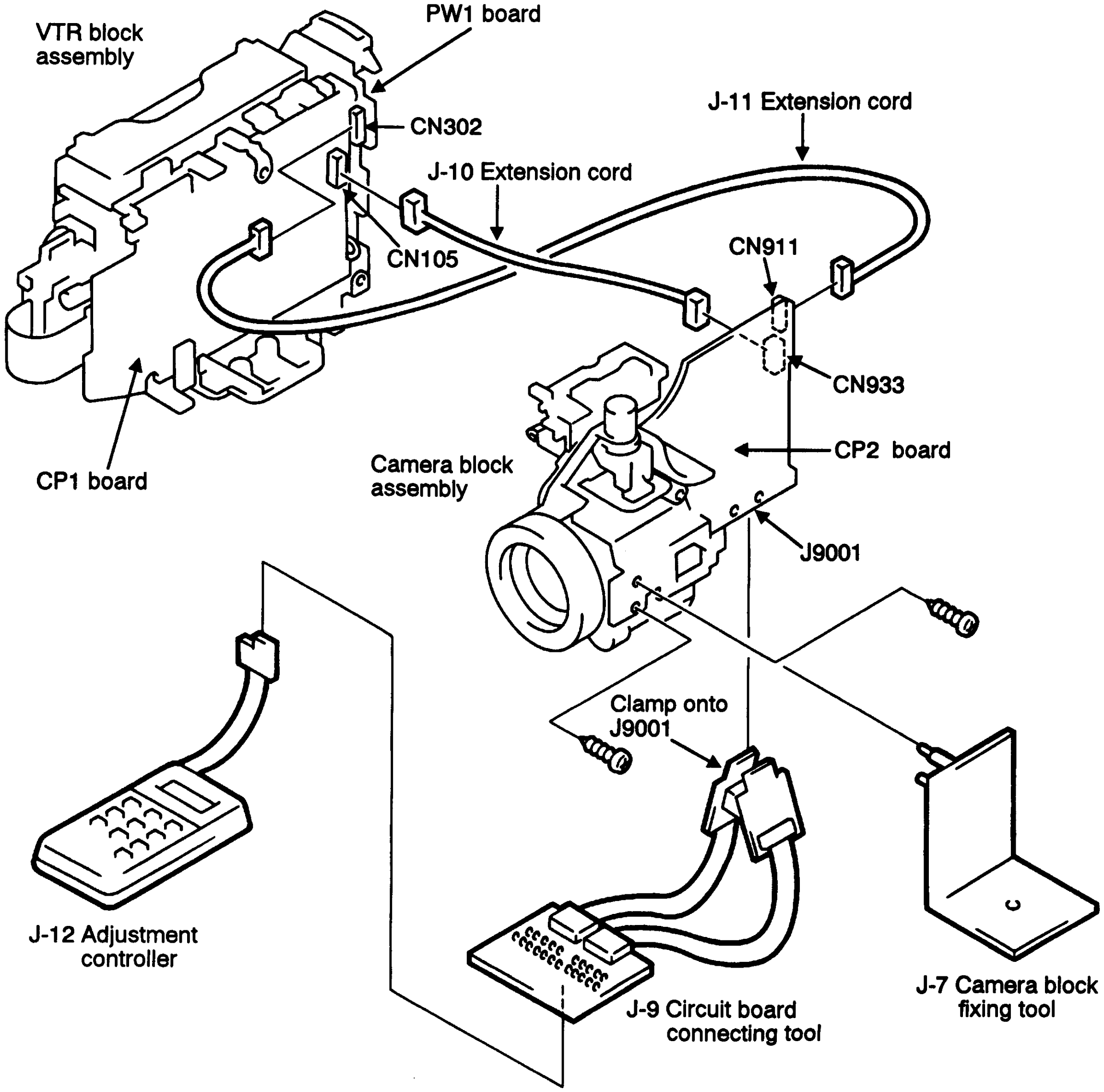
1-4. SETUP AND CONNECTION

Refer to "**3. DISASSEMBLY**" to remove the cabinet and each board.

1. Set the camera block assembly to the tool J-7 as illustrated.
2. Set up the camera block assembly and VTR block assembly as illustrated.
3. Connect as follows. Note that the required preparation differs a little depending on the adjustment item.
   CP1 to CP2 (J10)
   CP2 to PW1 (J-11)
   CP2 to Adjustment Controller (Refer to 1-7)

NOTES:

- Open or ground the test pin J9001 ① [CAM ADJ.3], J9001 ⑧ [CAM ADJ.1] and J9001 ⑨ [CAM ADJ.2] in accordance with the adjustment specification.
- Use the test pin J9001 ⑬ [ID] and J9001 ⑮ [GND] as the trigger for the oscilloscope and GND.
- The circuit board connecting tool J-9 is also used in "**2. VTR BLOCK ADJUSTMENT.**"


VTR block assembly
PW1 board
CN302
J-11 Extension cord
J-10 Extension cord
CN105
CN911
CN933
CP2 board
CP1 board
Camera block assembly
J9001
Clamp onto J9001
J-12 Adjustment controller
J-9 Circuit board connecting tool
J-7 Camera block fixing tool

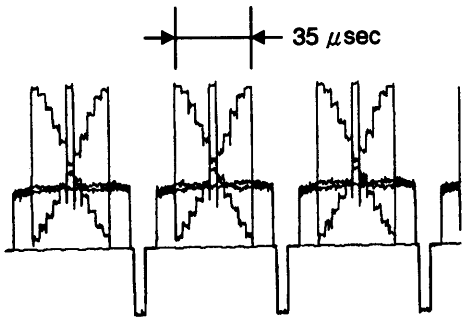
Note:
Because there is a slight lobe on the J9001, the J-9 circuit board connecting tool may not become clamped in some cases. If this happens, use a file to gently file away the lobe. If too much is filed away, pin (16) of J9001 will *form an open circuit*, and it will not be possible to use [AGC.DET] of pin (16) of J9001 as the measurement point for **7. AGC Level Adjustment** in "**CAMERA BLOCK ADJUSTMENT.**"
Connect the oscilloscope probe to pin (24) of IC917 instead of pin (16) of J9001.

1-5. NOTES

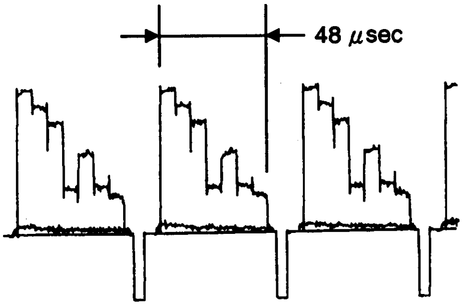
1. Perform the adjustment after aging for ten minutes or more.
2. As a rule, perform the adjustment in the order as shown in the section 1-8.
3. Set the line select switch of the vectorscope to +V.

1-6. STANDARD SETTING

1. Use the 5,100K viewer for a subject.
2. Set to about 70 cm the distance from subject and adjust with the power zoom buttons so that each picture frame size becomes as shown below when performing the adjustment with the gray scale and the color bar.
3. Operate the power zoom buttons so that the viewer without chart is monitored on the whole screen when performing the adjustment with the all white pattern.
4. Connect the equipment.



Gray scale



Color bar

1-7. ADJUSTMENT CONTROLLER

For this camera, the semi-fixed resistors used formerly decrease to four and the EVR (electronic volume) IC is used instead. The EVR IC incorporates the non-volatile memory and the 8 bits D/A converter of 12 channels.

The adjustment controller performs the following communications with EVR IC.

They are channel designation, up/down of data (8 bits, 0 to 255), reading out of the data written in the memory and writing of the data to the memory, etc.

These operations can be performed by the key operations of the adjustment controller.

Use the adjustment controller as described below.

① **Connecting method**

Turn off the power supply of the AC adaptor, then connect test pin array J9001 of CP2 board to the adjustment controller using the J-9 circuit board connecting tool. (Refer to 1-4.)

② **Power supply**

Use the DC regulated power supply for the power supply of the adjustment controller and connect 6 to 8 VDC to the pin jack.

- Turn on/off the power supply of camera and the power supply of the adjustment controller at the same time.

③ **Test pin array**

Due to its small size, connect test pin array J9001 of CP2 board to the adjustment controller using the J-9 circuit board connecting tool. The J-9 relay board is, as the J9001, also located in the test pin array.

④ **Relation between the adjusting data value and EVR IC output voltage**

When setting the adjusting data value as N, and EVR IC output voltage as V (N), the following formula is obtained.

$V(N) \fallingdotseq 0.5 + 3N/255$

(Example): $V(0) \fallingdotseq 0.5$ volt, $V(128) \fallingdotseq 2.0$ volt,
$V(255) \fallingdotseq 3.5$ volt

⑤ **Note on using the adjustment controller**

The correct adjusting data may be deleted by misoperation of the adjustment controller. The following three items are recommended to prevent this.

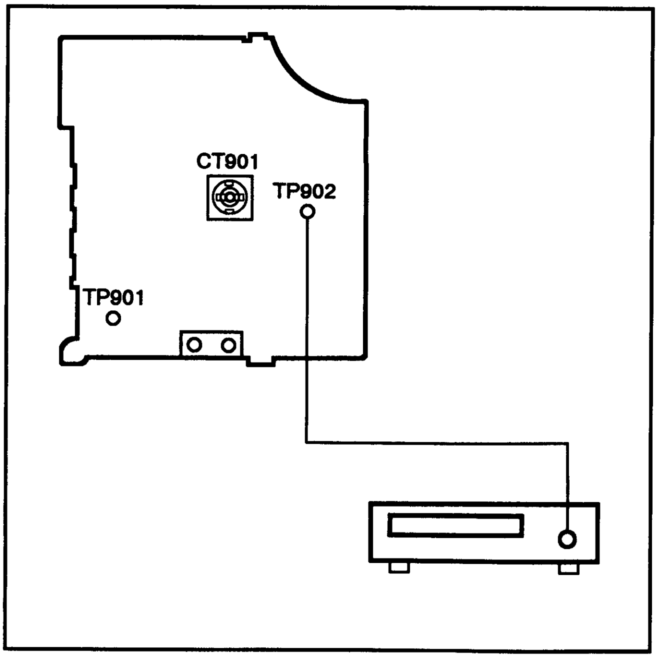
1. Before performing the adjustment, note after reading out the adjusting data (0 to 255) of each channel.
2. Note the new adjusting data every time an adjustment of item completes.
3. Send each data to the D/A converter of each channel by pressing AID+SEND and AID+WRT after setting the data of all adjusting items and store each into the memory to finish the adjustment.

(Refer to VJ8-0103 Adjustment controller Instruction Manual.)

1-8. ADJUSTING SPECIFICATION

1. Oscillation Frequency Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP902 TP901 (GND)	Frequency counter	CAMERA EE
	Subject	

ADJ. Location	ADJ. Value
CT901	28,375 ± 0.15 kHz

Preparation:

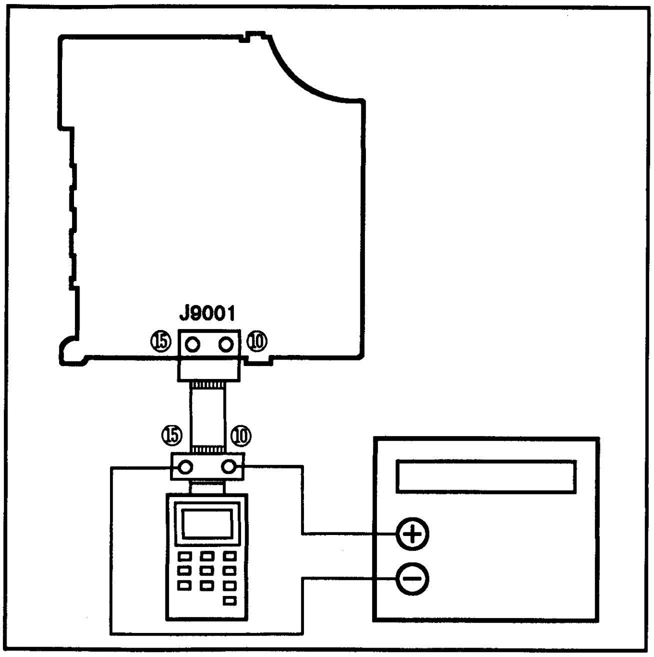
- Set the CAMERA EE mode by setting the POWER switch to "CAMERA" and the Stand-by switch to "STANDBY".
- Connect the color monitor to the video output terminal. (Condition for subsequent adjustments.)

Adjusting method:

1. Adjust with CT901 so that the oscillation frequency is 28,375 ± 0.15 kHz.

2. Focus Position Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001 ⑩ [ADJ. END] J9001 ⑮ [GND]	Digital voltmeter	Power OFF → ON
	Subject	
	Siemens star (from lens surface: 70 ± 3.5 cm, illuminance: 100 to 200 lux)	

ADJ. Location	ADJ. Value

Preparation:

- Short pin ①, pin ⑨ and pin ⑮ of J9001.

Adjusting method:

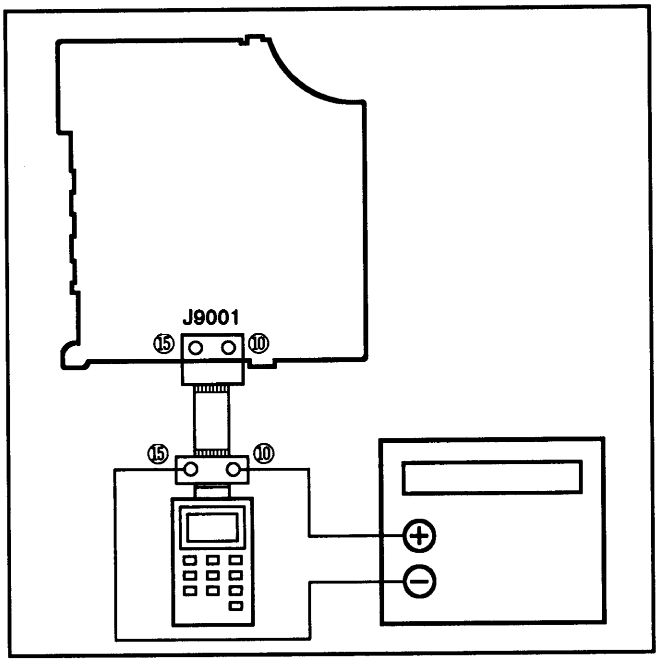
1. Turn on the power by changing the Stand-by switch from "POWER SAVE" to "STANDBY".
2. The DC voltage of J9001 ⑩ will change from High (4 ~ 5 V) to Low (below 1 V), and the adjustment will be completed. (About 15 seconds)

NOTES:

- After turning the power on, it takes up to 10 seconds to adjust the focus on the subject.
- If the subject is not focused after 10 seconds of turning on the power, turn the power off and then on again.

3. Zooming Curve Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001 ⑩ [ADJ. END] J9001 ⑮ [GND]	Digital voltmeter	Power OFF ➡ ON
	Subject	
	Siemens star (from lens surface: 120 ± 1.2 cm, illuminance: 50 to 120 lux)	

ADJ. Location	ADJ. Value

Preparation:

- Short pin ① and pin ⑧, then short pin ⑨ and pin ⑮ of J9001.

Adjusting method:

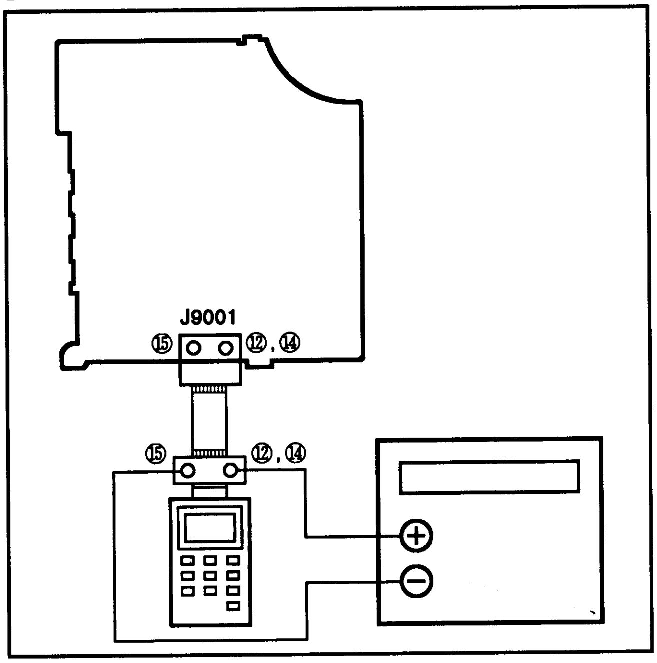
1. Turn on the power by changing the Stand-by switch from "POWER SAVE" to "STANDBY".
2. The DC voltage of J9001 ⑩ will change from High (4 ~ 5 V) to Low (below 1 V), and the adjustment will be completed. (About 15 seconds)

NOTES:

- After turning the power on it takes up to 10 seconds to adjust the focus. The adjustment is completed after the screen gets black, comes on and gets black again.
- After the focus position adjustment, adjust the zooming curve. In case vibrations that may cause the subject to come out of focus are detected during the adjustment, the focus will be readjusted.

4. CCD Driving Voltage Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
J9001 ⑫ [VSUB] J9001 ⑭ [PGL] J9001 ⑮ [GND]	Digital voltmeter	CAMERA EE
	Subject	
	No designation	

ADJ. Location	ADJ. Value
EVR CH1 [VSUB] EVR CH2 [PGL]	Abbreviation voltage value ± 0.1 V

Preparation:

- Short pin ① and pin ⑧, then short pin ⑨ and pin ⑮ of J9001.

Adjusting method:

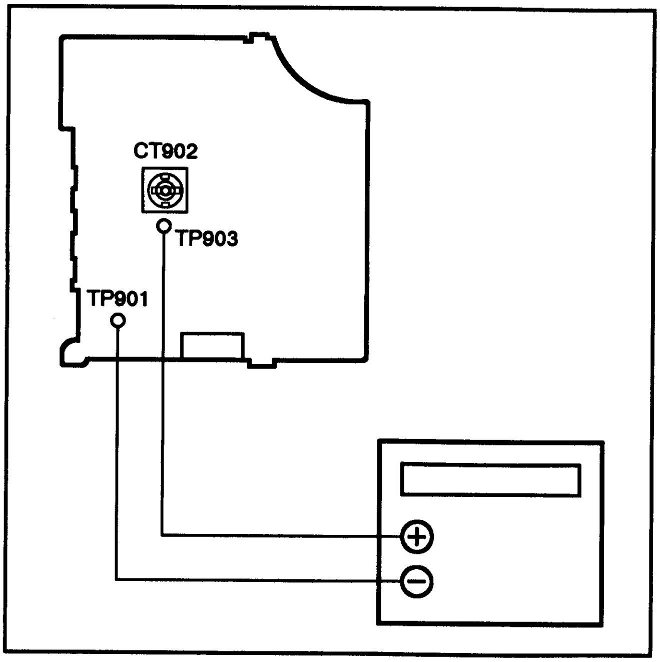
1. Read the abbreviation of two digits displayed on the rear side of CCD. The first digit displays PGL and the second digit displays VSUB. Convert these to the voltage with the table below.
   For example, [4R] displays PGL = 2.5 V, VSUB = 14.5 V
2. Operate the CH-UP key or the CH-DOWN key to designated EVR CH1.
3. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key so that the voltage at [VSUB] becomes the displayed voltage value ± 0.1 V.
4. Press the WRT key to store the adjusting data.
5. Repeat steps 2. ~ 4., and use the WRT key to adjust in the same manner the EVR CH2 [PGL] displayed voltage value ± 0.1 V.

PGL abbreviation	1	2	3	4	5	6	7
Voltage [V]	1.0	1.5	2.0	2.5	3.0	3.5	4.0

VSUB abbreviation	E	f	G	h	J	K	L	m	N	P	Q	R	S	T	U	V	W	X	Y	Z
Voltage [V]	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5

5. PLL Voltage Provisional Adjustment

[Connection]



[Adjustment]

<table>
<tr><th>Measuring Point</th><th>Measuring Equipment</th><th>Condition</th></tr>
<tr><td rowspan="3">TP903
TP901 (GND)</td><td>Digital voltmeter</td><td>CAMERA EE</td></tr>
<tr><th colspan="2">Subject</th></tr>
<tr><td colspan="2">No designation</td></tr>
</table>

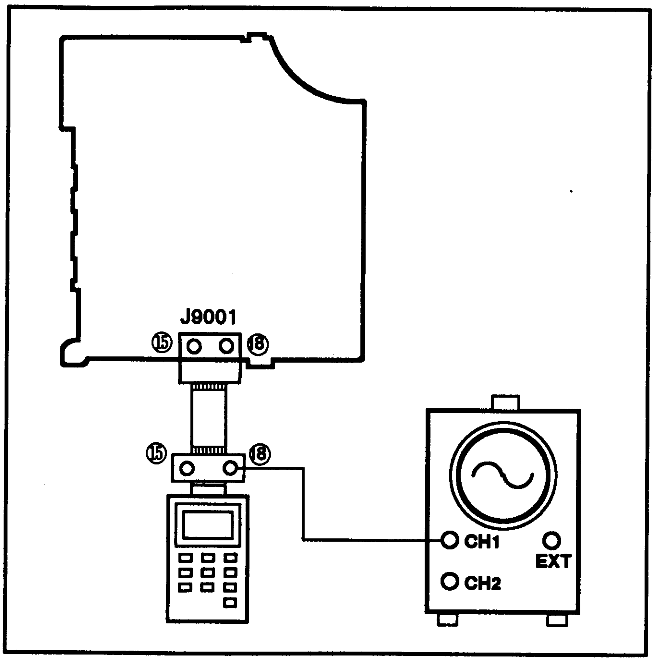
ADJ. Location	ADJ. Value
CT902	2.0 ~ 3.0 VDC

Adjusting method:

1. Adjust with CT902 to 2.0 ~ 3.0 VDC.

6. Auto Iris Level Adjustment

[Connection]



[Adjustment]

<table>
<tr><th>Measuring Point</th><th>Measuring Equipment</th><th>Condition</th></tr>
<tr><td rowspan="3">J9001⑱
[IRIS DET]
J9001 ⑮ [GND]</td><td>Oscilloscope</td><td>CAMERA EE</td></tr>
<tr><th colspan="2">Subject</th></tr>
<tr><td colspan="2">Gray scale (standard picture frame)</td></tr>
</table>

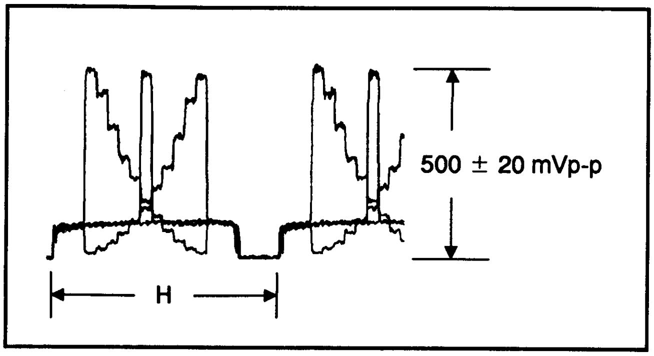
ADJ. Location	ADJ. Value
EVR CH3	500 ± 20 mV

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

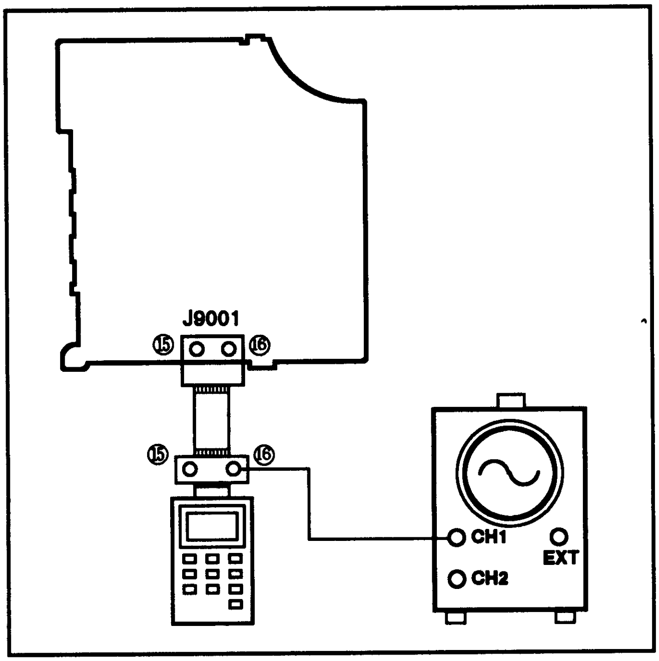
Adjusting method:

1. Operate the CH-UP key or the CH-DOWN key to designated EVR CH3.
2. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [IRIS DET.] waveform level to 500 ± 20 mVp-p.
3. Press the WRT key to store the adjusting data.



7. AGC Level Adjustment

[Connection]



[Adjustment]

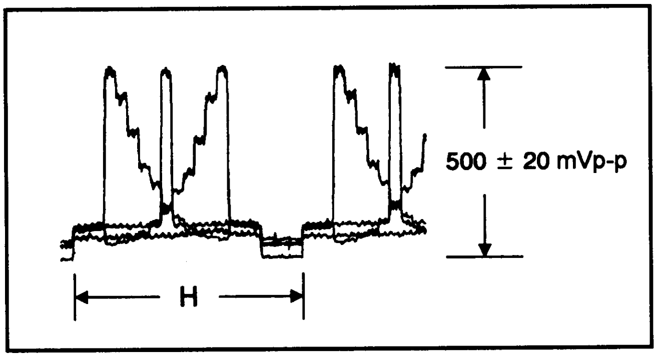
Measuring Point	Measuring Equipment	Condition
J9001 ⑯ [AGC. DET] J9001 ⑮ [GND]	Oscilloscope	CAMERA EE
	Subject	
	Gray scale (standard picture frame)	
ADJ. Location	**ADJ. Value**	
EVR CH4	500 ± 20 mVp-p	

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

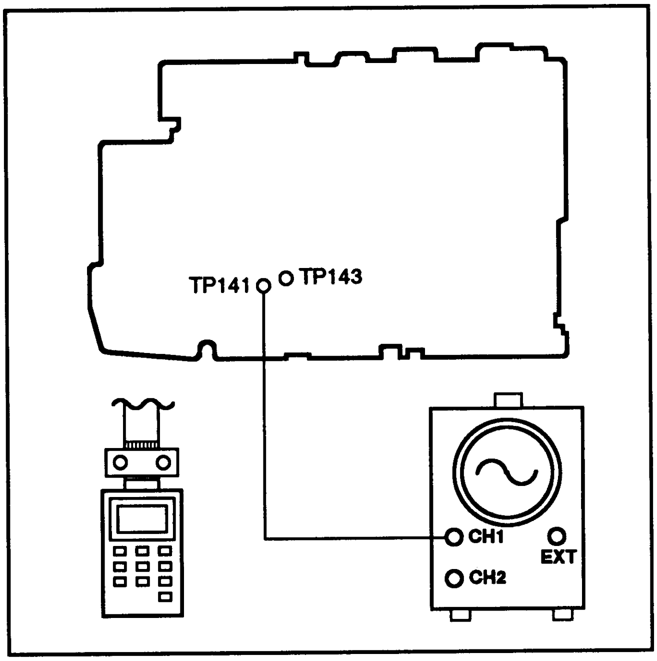
Adjusting method:

1. Operate the CH-UP key or the CH-DOWN key to designate EVR CH4.
2. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [AGC.DET] waveform level to 500 ± 20 mVp-p.
3. Press the WRT key to store the adjusting data.



8. Y Level Adjustment

[Connection]



[Adjustment]

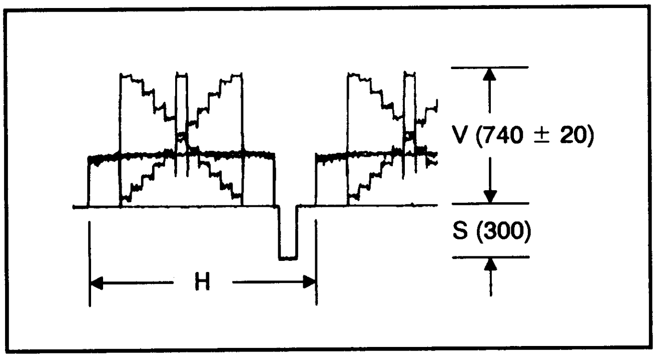
Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Oscilloscope	CAMERA EE
	Subject	
	Gray scale (standard picture frame)	
ADJ. Location	**ADJ. Value**	
EVR CH5	S : V = 300 : (740 ± 20)	

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

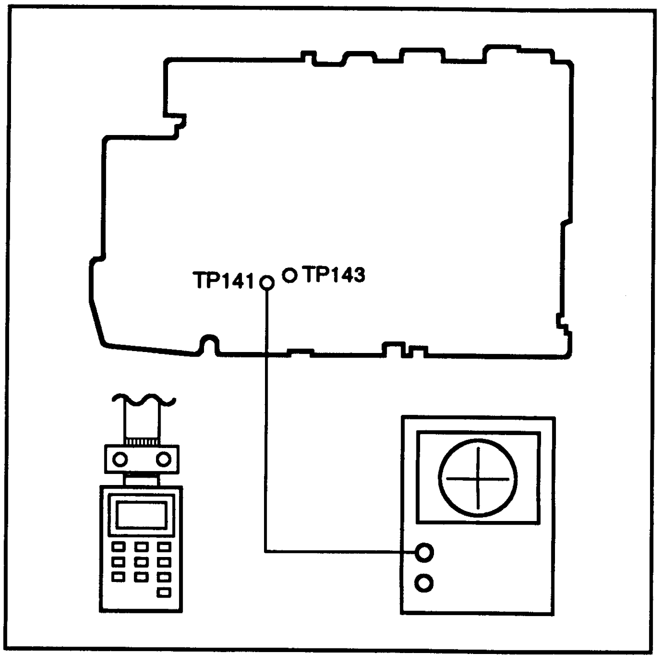
Adjusting method:

1. Operate the CH-UP key or the CH-DOWN key to designate EVR CH5.
2. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the S : V ratio to 300 : (740 ± 20).
3. Press the WRT key to store the adjusting data.



9. Chroma Balance Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope	CAMERA EE
	Subject	
	Color bar (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH6	

Preparation:

- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:

1. Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
2. Operate the CH-UP key or the CH-DOWN key to designate EVR CH6.
3. Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to focus the luminance points which indicates color vectors respectively. (See page 5-10)

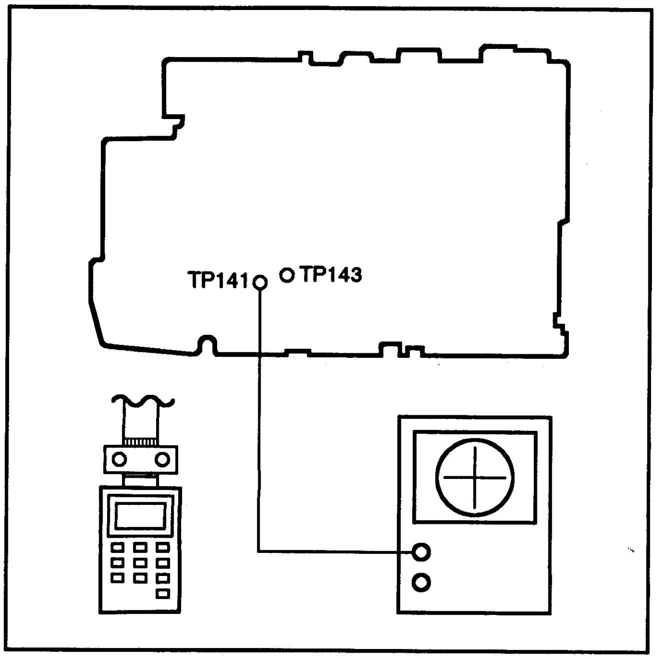
- Adjust especially paying attention to the red vector.

4. Press the WRT key to store the adjusting data.

EVR CH7	R – Y GAIN
EVR CH8	B – Y GAIN
EVR CH9	R – Y MATRIX
EVR CH10	B – Y MATRIX
EVR CH11	R CONTROL
EVR CH12	B CONTROL

10. Hue and Chroma Level Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope	CAMERA EE
	Subject	
	Color bar (standard picture frame)	

ADJ. Location	ADJ. Value
EVR CH7, CH8, CH9, CH10	

Preparation:

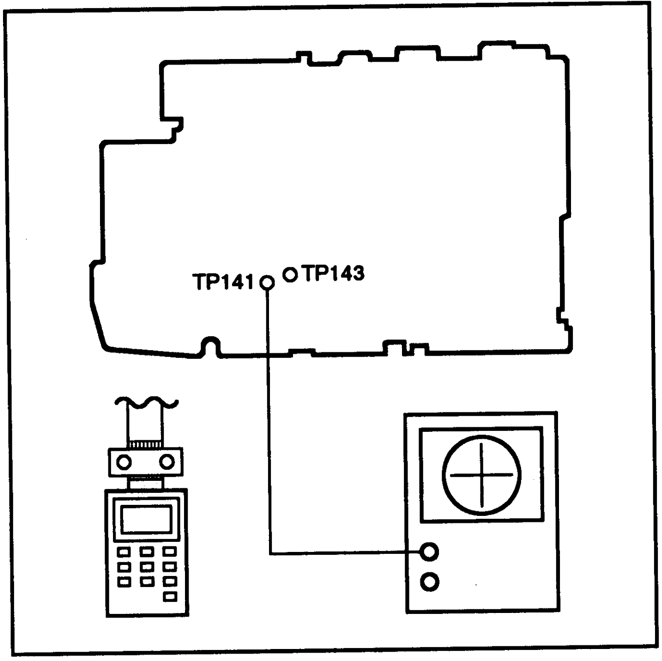
- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:

1. Press the RESET key once.
2. Press the READ key once while pressing the AID key and read out all the EVR data.
3. Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
4. Adjust temporarily the white balance. Designate CH11 and CH12 and match the white vector of the color bar with the center of the vectorscope. Press the WRT key pressing the AID key to store the temporary adjusting data.
5. Adjust the four EVRs of CH7, CH8, CH9 and CH10 alternately so that the luminance points which indicate red and yellow vectors are on the points as shown in the figure respectively. (See page 5-10)
6. Press the WRT key once while pressing the AID key to store the adjusting data.

11. 5,100K AWB Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141[CP1] (video output) TP143 (GND)	Vectorscope Color viewer 5,100K	CAMERA EE
	Subject	
	All white pattern	

ADJ. Location	ADJ. Value
EVR CH11, CH12	

Preparation:

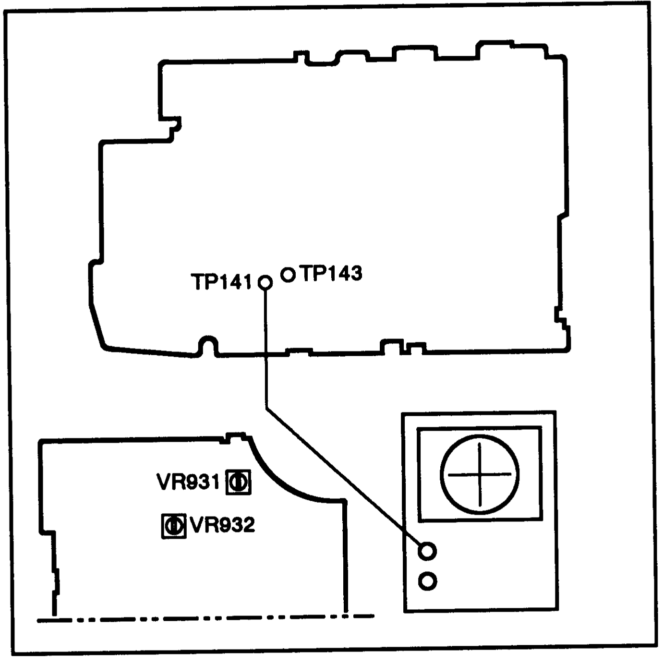
- Short pin ⑧ and pin ⑮ of J9001.

Adjusting method:

1. Set the gain so that the burst comes to the end of the vectorscope.
2. Press the RESET key once.
3. Press the READ key once while pressing the AID key and read out all the EVR data.
4. Adjust two EVRs of CH11 and CH12 mutually so that the luminance point displayed the white vector is positioned on the center point as shown in the figure. (See page 5-10)
5. Press the WRT key once while pressing the AID key to store the adjusting data.

12. 2,800K AWB Adjustment

[Connection]



[Adjustment]

Measuring Point	Measuring Equipment	Condition
TP141 [CP1] (video output) TP143 (GND)	Vectorscope Color viewer 5,100K	CAMERA EE
	Subject	
	All white pattern (Insert two LBA8s into ray way)	

ADJ. Location	ADJ. Value
VR931 (R. G) VR932 (B. G)	

Preparation:

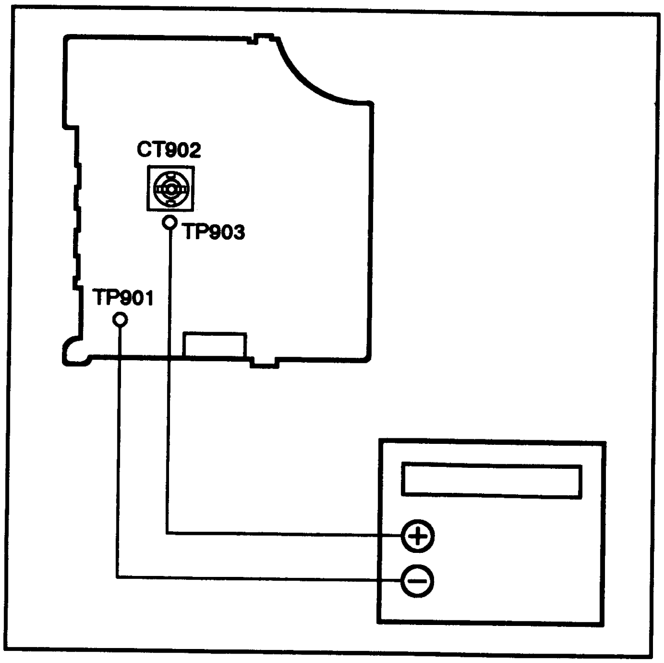
- Short pin ⑧, pin ⑨ and pin ⑮ of J9001.

Adjusting method:

1. Set the gain so that the burst comes to the end of the vectorscope.
2. Adjust with the VR931 (R. G) and VR932 (B. G) so that the luminance point displayed the white vector is positioned on the center point as shown in the figure. (See page 5-10)

13. PLL Voltage Adjustment

[Connection]



[Adjustment]

<table>
<tr><th>Measuring Point</th><th>Measuring Equipment</th><th>Condition</th></tr>
<tr><td rowspan="3">TP903
TP901 (GND)</td><td>Digital voltmeter</td><td>CAMERA EE</td></tr>
<tr><td colspan="2">Subject</td></tr>
<tr><td colspan="2">No designation</td></tr>
<tr><th>ADJ. Location</th><th colspan="2">ADJ. Value</th></tr>
<tr><td>CT902</td><td colspan="2">2.4 ± 0.1 VDC</td></tr>
</table>

Adjusting method:

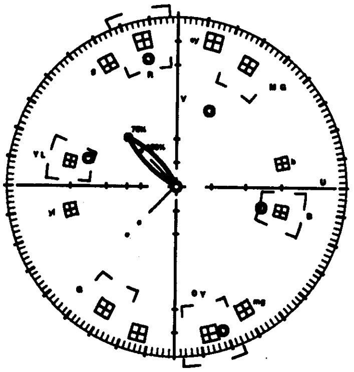
1. Turn CT902 so that the voltage of TP903 becomes 2.4 ± 0.1 VDC.

NOTE:

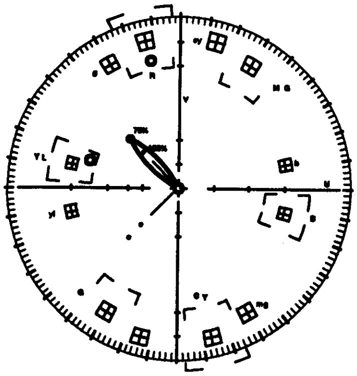
- Perform the adjustment especially after aging for more than ten minutes.

[Vectorscope display]

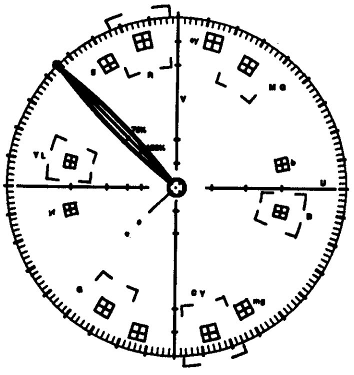
9. Chroma Balance Adjustment



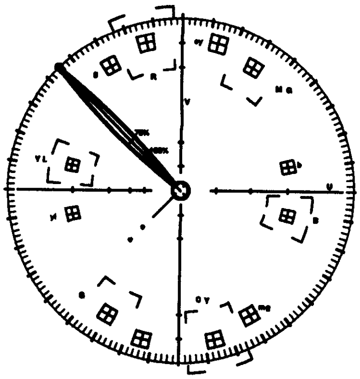
10. Hue and Chroma Level Adjustment



11. 5,100K AWB Adjustment



12. 2,800K AWB Adjustment



2. VTR BLOCK ADJUSTMENT

2-1. EQUIPMENTS

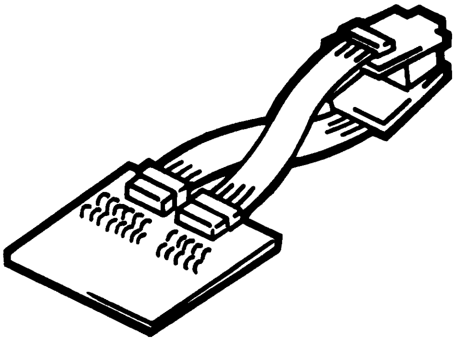
1. Monitor TV
2. Oscilloscope 2 phenomena, band 10 MHz or wider, delay mode. (Use 10 : 1 probe unless otherwise specified.)
3. Frequency counter, Universal counter
4. Pattern generator with video output terminal
   Note: One on which the chroma signal can be turned off)
5. Regulated power supply
6. Alignment tape
7. MP tape
8. Circuit board connecting tool
9. Alligator clip lead wire

2-2. ALIGNMENT TAPE

For video frequency characteristics adjustment (WR5-6C) : Part code; 96-7995-17
For operation check (WR5-5CSP) : Part code; 96-7995-47

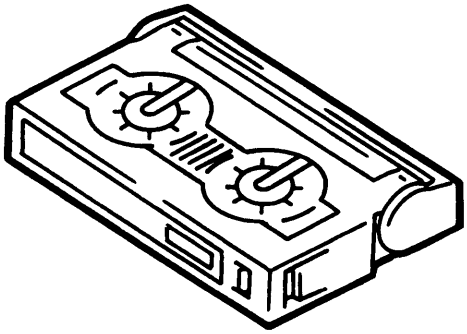
Name	**Contents**		**Application**
Video frequency characteristics (WR5-6C)	1. Recorded area 2. Recorded contents 3. Marker	Video RF sweep 0 to 10 MHz 1, 3.58, 5.5, 7 MHz	Frequency characteristics adjustment
Operation check (WR5-5CSP)	1. Recorded area 2. Recorded contents	Video, audio Color bar, monoscope (SP) Audio signal (FM), PCM audio signal	Operation check

J-9



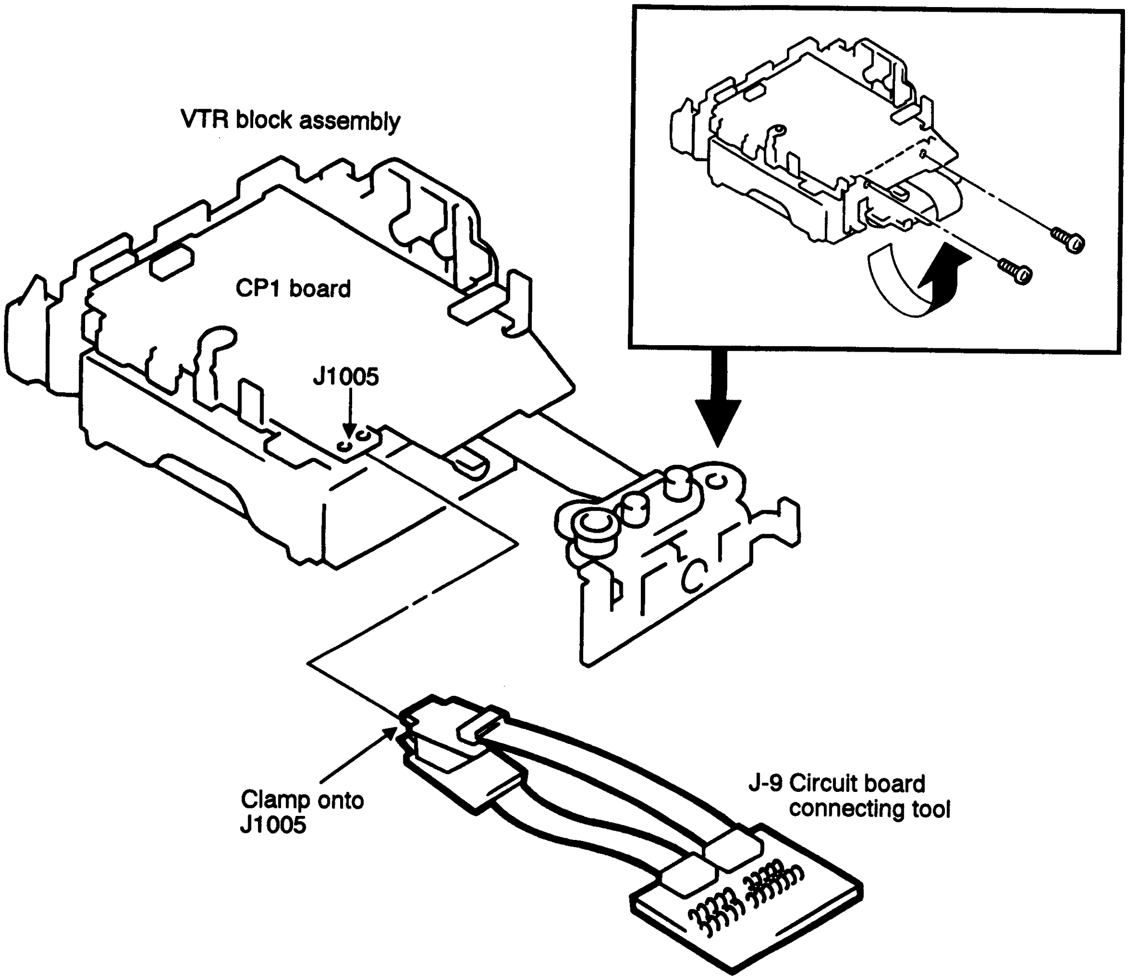
Circuit board connecting tool

J-14, J-15



WR5-6C, WR5-5CSP

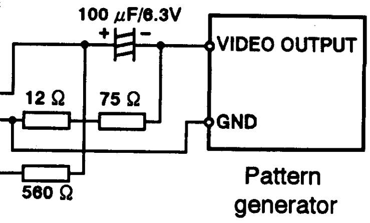
2-3. SETUP AND CONNECTION


VTR block assembly
CP1 board
J1005
Clamp onto J1005
J-9 Circuit board connecting tool

(Video circuit adjustment pattern generator input signal connecting method)

J1005

NOT USED	1
RF SW1	2
PB RF	3
RF SW2	4
FO	5
$\overline{\text{CCD ON}}$	6
CAM/$\overline{\text{LINE}}$	7
NOT USED	8
C IN	9
Y, Y + C IN	10
GND	11
GND	12
S/S 5V	13
$\overline{\text{TEST}}$	14
NOT USED	15
NOT USED	16
NOT USED	17
NOT USED	18
NOT USED	19
NOT USED	20
AUDIO IN	21
NOT USED	22

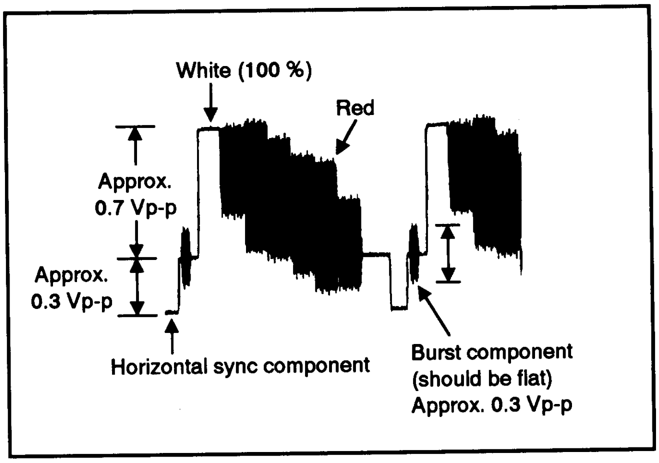

100 µF/6.3V
+
−
12 Ω
75 Ω
560 Ω
VIDEO OUTPUT
GND
Pattern generator

CP1 Board

2-4. SETUP FOR ADJUSTMENT

For adjustment of the VTR section, the video signal from the pattern generator is used as the adjustment signal. Therefore, it is necessary that this video output signal is within the specified level.

Confirm that the amplitude of the sync signal of the video signal is about 0.3 Vp-p, that the amplitude of the video section is about 0.7 Vp-p, that the amplitude of the burst signal is about 0.3 Vp-p and is flat, and that the level ratio of the burst signal and the "red" signal is 0.30 : 0.66.



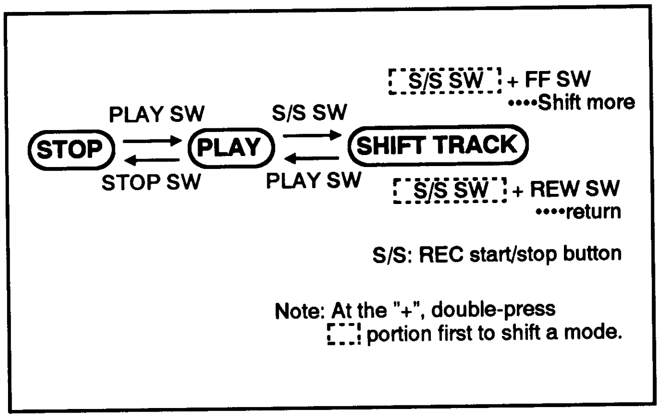
[ADJ mode]

ADJ mode can be entered by short-circuiting test pin ⑪ [GND] and pin ⑭ [$\overline{\text{TEST}}$] of J1005.

However, when in CAMERA mode (POWER switch: "CAMERA", Stand-by switch: "STANDBY"), mode shifting cannot be made as shown below.

[ADJ function]

- Stops the reel rotation checking operation.
- Stops the discrimination of SP/LP mode in playback mode.



S/S: REC start/stop button

Note: At the "+", double-press ⁞⁞ portion first to shift a mode.

Note: SHIFT TRACK mode is used for Mechanism tracking adjustment.

2-5. ADJUSTMENT ITEM AND ORDER

[Servo/System Control Circuit]

1. ON-screen character position adjustment
2. Video center adjustment

[Video Circuit]

1. Playback frequency characteristics check
2. Flying erase check
3. Sync AGC adjustment
4. Comb filter phase adjustment
5. Comb filter level adjustment
6. PB line out Y level adjustment
7. PB Y level check
8. Y FM carrier frequency adjustment
9. Y FM deviation adjustment
10. REC Y recording current check
11. REC C recording current check
12. REC AFM recording current check
13. REC ATF recording current check

[Audio Circuit]

1. fo adjustment
2. Deviation check
3. Overall level check
4. Overall S/N check

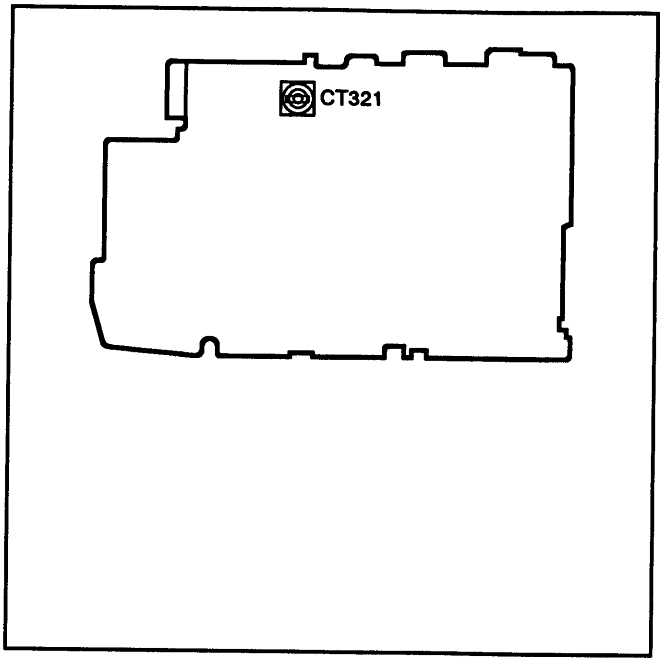
[Viewfinder Circuit]

1. Horizontal oscillation frequency adjustment
2. Viewfinder provisional adjustment
3. Centering adjustment
4. Horizontal size & viewfinder slant adjustment
5. Vertical size adjustment
6. Brightness adjustment
7. Focus adjustment

2-6. SERVO/SYSTEM CONTROL CIRCUIT

1. On-screen Character Position Adjustment

[Connection]



[Adjustment / Check]

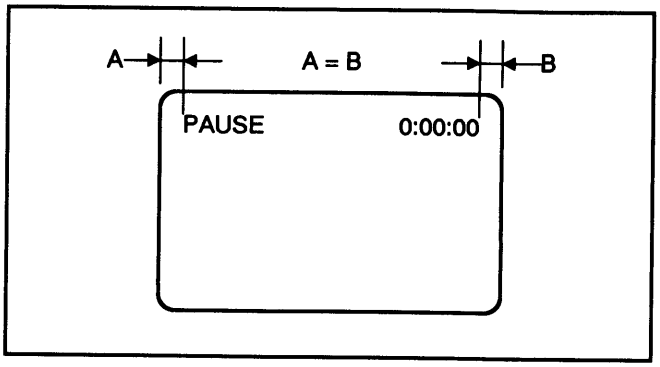
Measuring Point	Measuring Equipment	Condition
Viewfinder		Recording Pause
	Input Signal / Alignment Tape	
ADJ. Location	ADJ. / Check Value	
CT321		

Preparation:

- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"

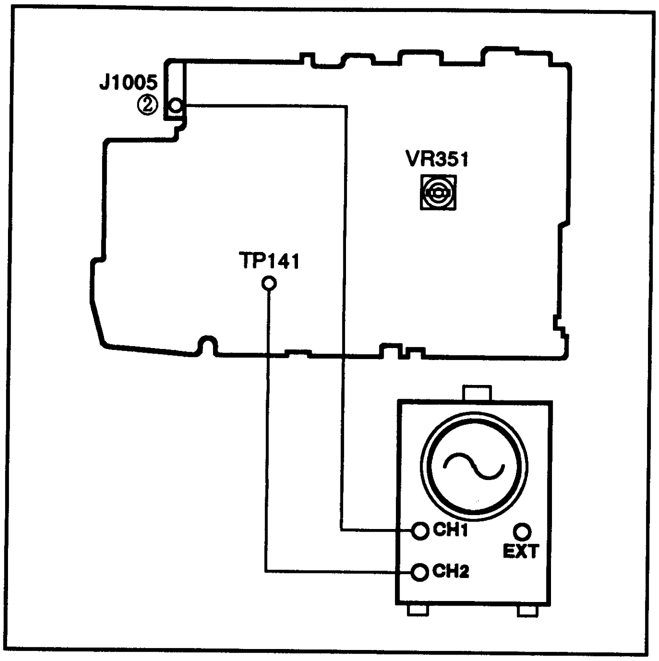
Adjusting / Checking method:

1. Adjust as illustrated with CT321.



2. Video Center Adjustment

[Connection]



[Adjustment / Check]

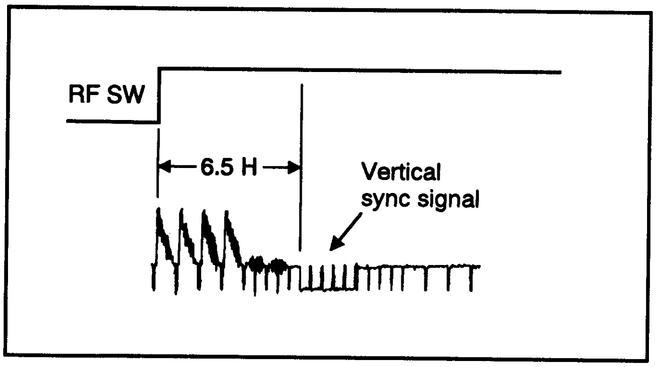
Measuring Point	Measuring Equipment	Condition
J1005 ② (CH1) TP141 (CH2) J1005 ⑪ (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check	
ADJ. Location	ADJ. / Check Value	
VR351	6.5 ± 0.3 H	

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:

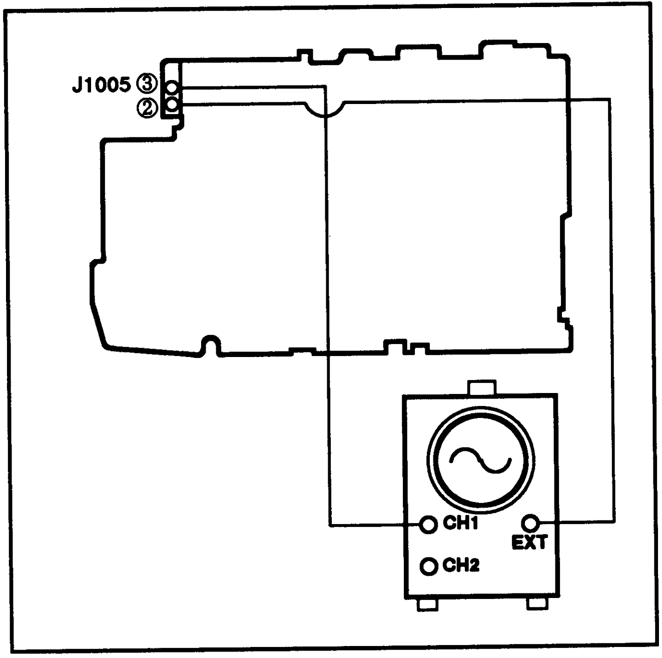
1. Adjust the vertical sync signal to 6.5 H from the rising edge (or falling edge) of the RF SW with VR351.



2-7. VIDEO CIRCUIT

1. Playback Frequency Characteristics Check

[Connection]

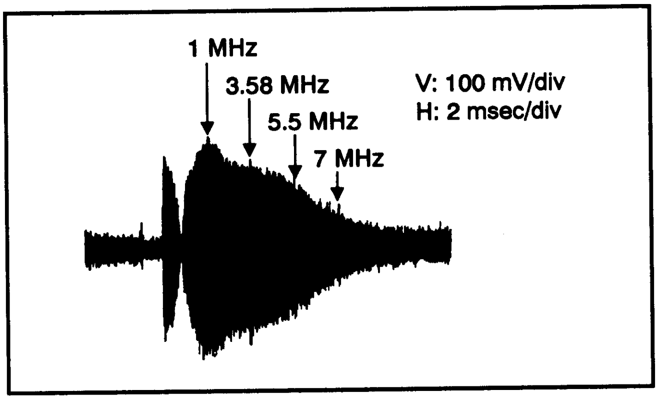


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
J1005③(CH1) J1005②(EXT) J1005⑪(GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-6C): For frequency characteristics check	
ADJ. Location	**ADJ. / Check Value**	
	3.58 MHz : 5.5 MHz = 4 : 3	

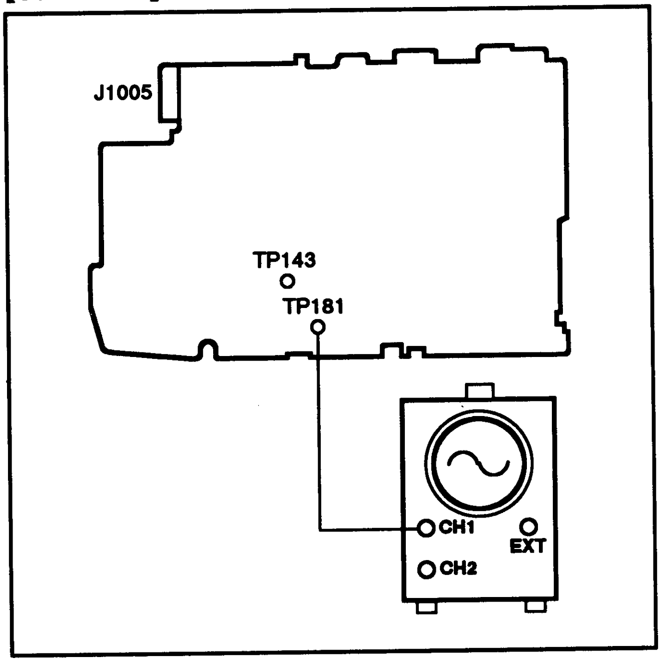
Preparation:
- POWER switch: "PLAYER"
- Trigger slope [+]: CH-A, [−]: CH-B

Adjusting / Checking method:
1. Confirm that the ratio between 3.58 MHz level and 5.5 MHz level is nearly 4 : 3.



2. Flying Erase Check

[Connection]

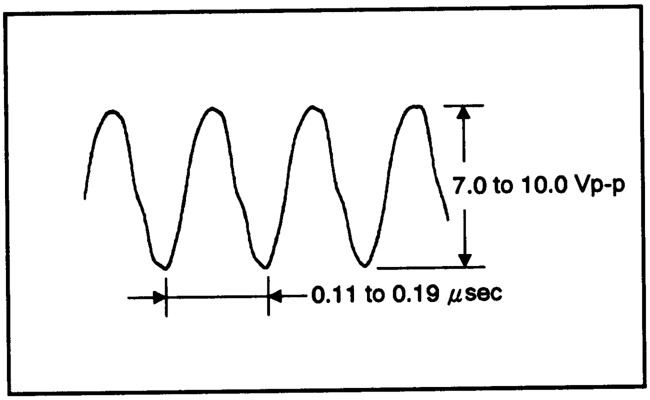


[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP181 (CH1) TP143 (GND)	Oscilloscope	Record
	Input Signal / Alignment Tape	
	Arbitrary	
ADJ. Location	**ADJ. / Check Value**	
	Oscillation frequency: 5.5 to 8.5 MHz Oscillation voltage: 7.0 to 10.0 Vp-p	

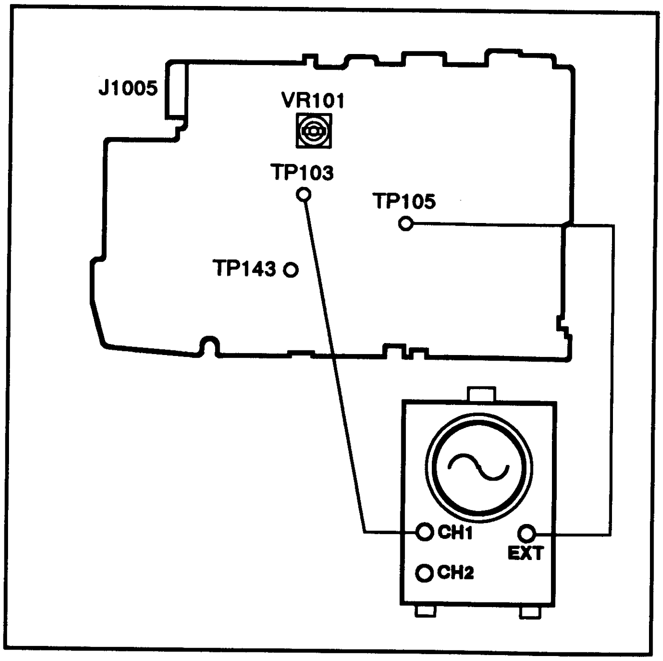
Preparation:
- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Confirm that the oscillation frequency is 5.5 to 8.5 MHz, and that the oscillation voltage is 7.0 to 10.0 Vp-p.



3. SYNC AGC Adjustment

[Connection]

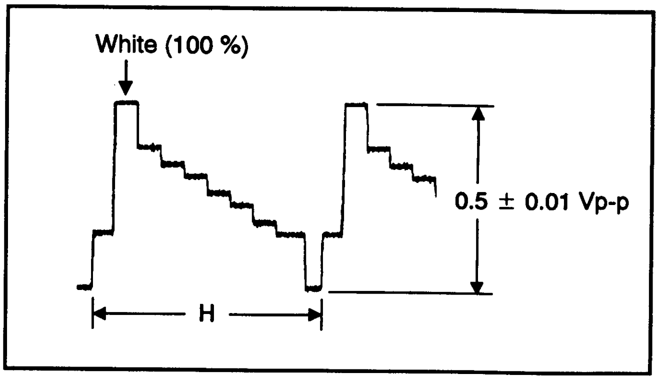

J1005
VR101
TP103
TP105
TP143
CH1
EXT
CH2

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP103 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar (Y signal only)	
ADJ. Location	**ADJ. / Check Value**	
VR101	0.5 ± 0.01 Vp-p	

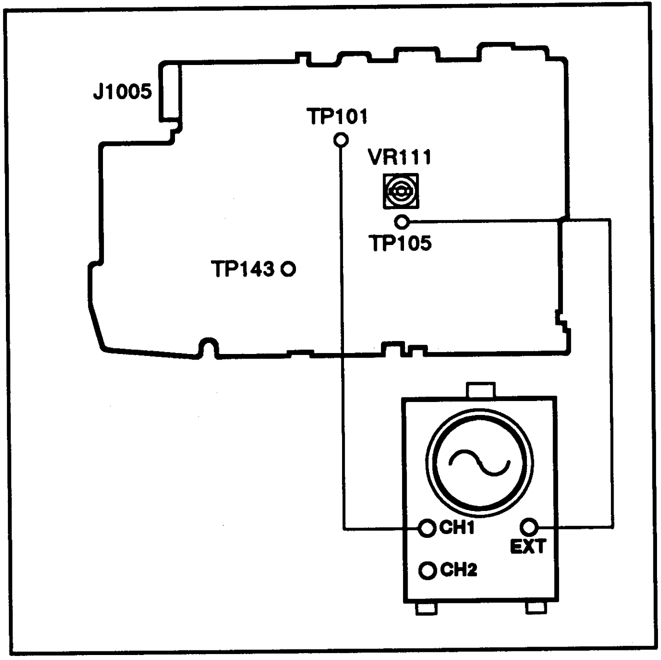
Preparation:
- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:
1. Adjust with VR101 to 0.5 ± 0.01 Vp-p.


White (100 %)
0.5 ± 0.01 Vp-p
H

4. Comb Filter Phase Adjustment

[Connection]



[Adjustment / Check]

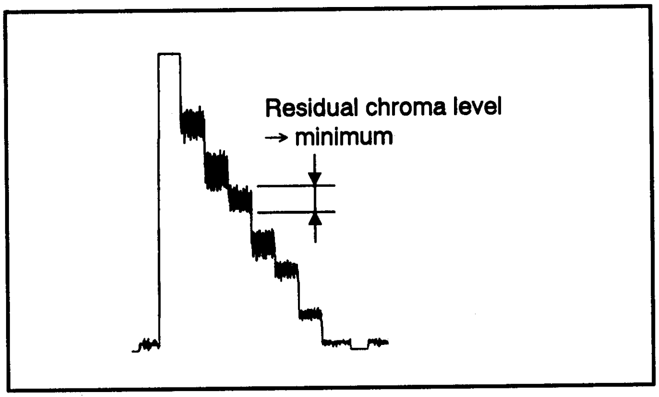
Measuring Point	**Measuring Equipment**	**Condition**
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
VR111		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

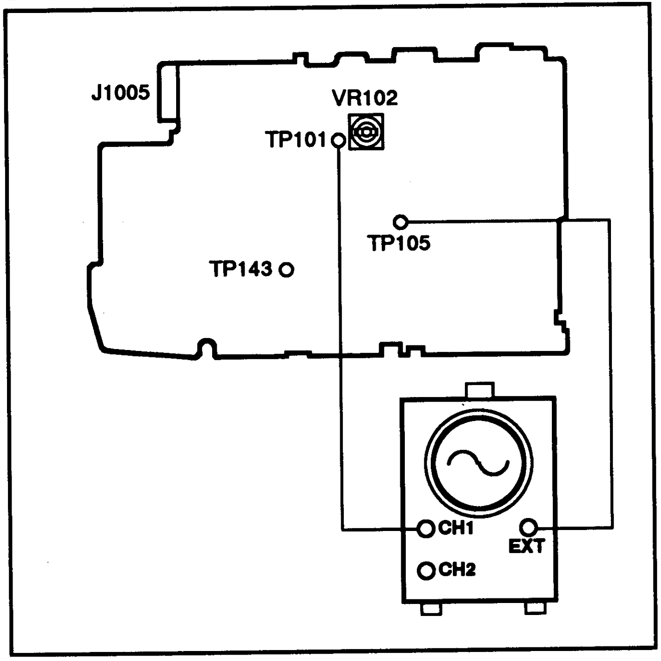
Adjusting / Checking method:

1. Adjust with VR111 so that the amplitude (residual chroma level) of green becomes minimum.



5. Comb Filter Level Adjustment

[Connection]



[Adjustment / Check]

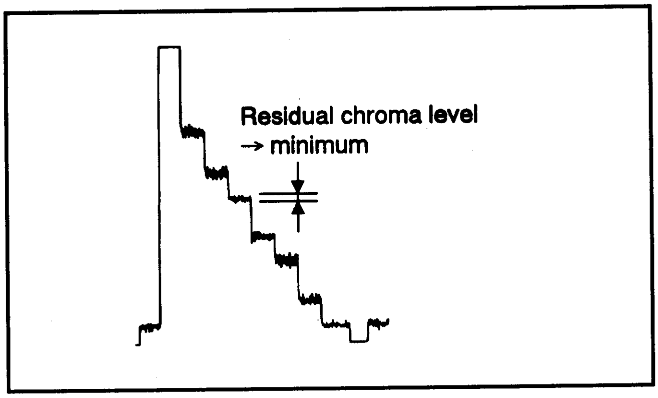
Measuring Point	**Measuring Equipment**	**Condition**
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Stop
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
VR102		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

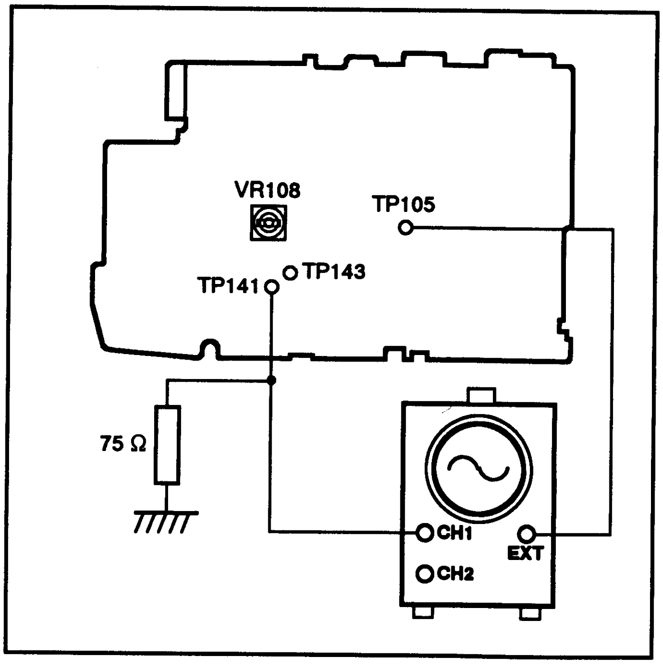
Adjusting / Checking method:

1. Adjust with VR102 so that the amplitude (residual chroma level) of greeen becomes minimum (below 25 mVp-p).



6. PB LINE OUT Y Level Adjustment

[Connection]



[Adjustment / Check]

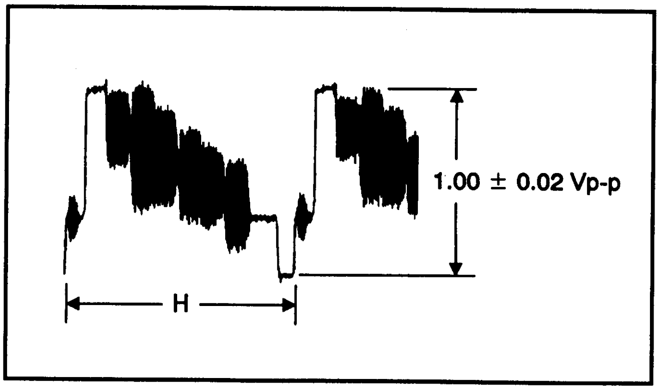
Measuring Point	Measuring Equipment	Condition
TP141 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, color bar portion	
ADJ. Location	**ADJ. / Check Value**	
VR108	1.00 ± 0.02 Vp-p	

Preparation:

- POWER switch: "PLAYER"

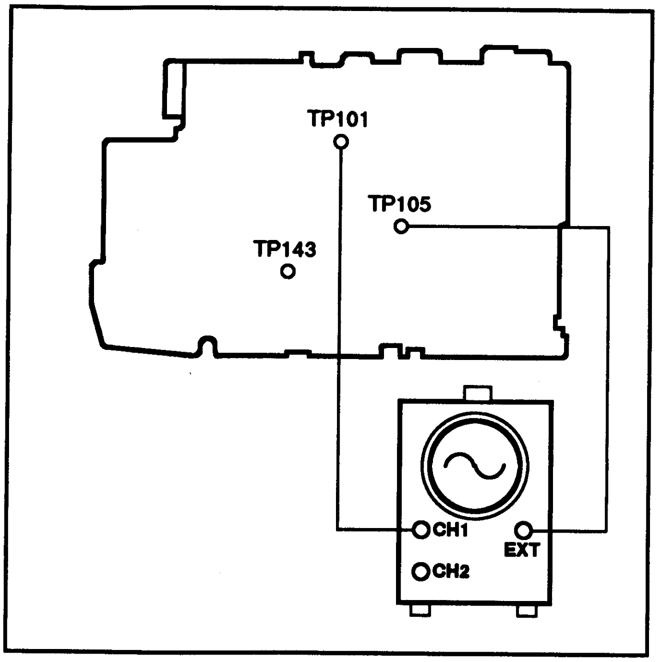
Adjusting / Checking method:

1. Adjust with VR108 to 1.00 ± 0.02 Vp-p.



7. PB Y Level Check

[Connection]



[Adjustment / Check]

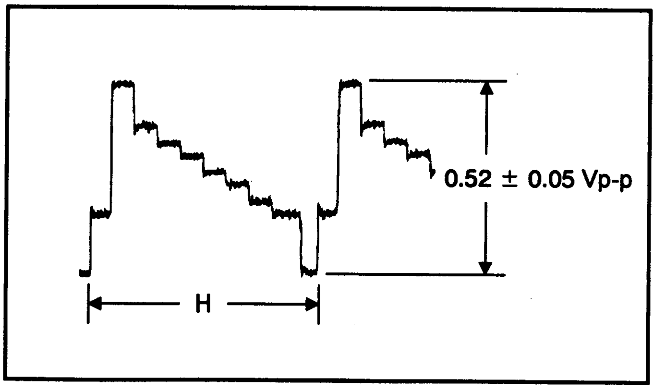
Measuring Point	Measuring Equipment	Condition
TP101 (CH1) TP105 (EXT) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, color bar portion	
ADJ. Location	**ADJ. / Check Value**	
	0.52 ± 0.05 Vp-p	

Preparation:

- POWER switch: "PLAYER"

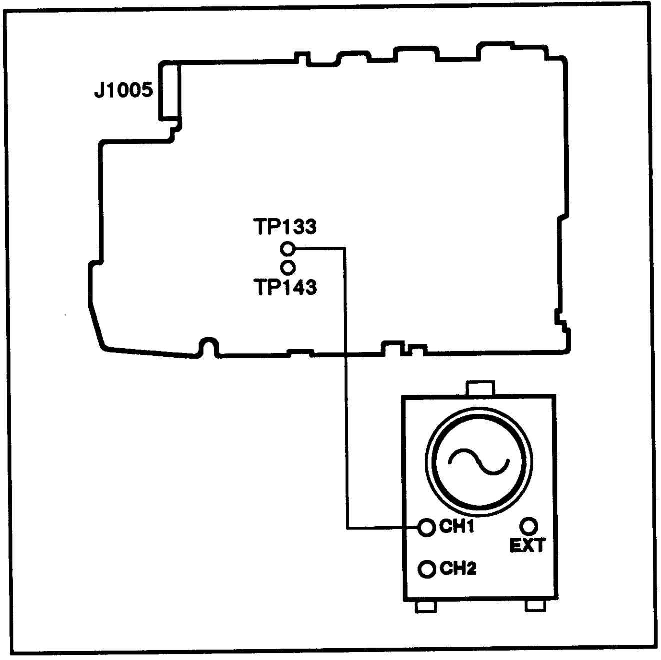
Adjusting / Checking method:

1. Confirm that the playback level is 0.52 ± 0.05 Vp-p.



12. REC AFM Recording Current Check

[Connection]



[Adjustment / Check]

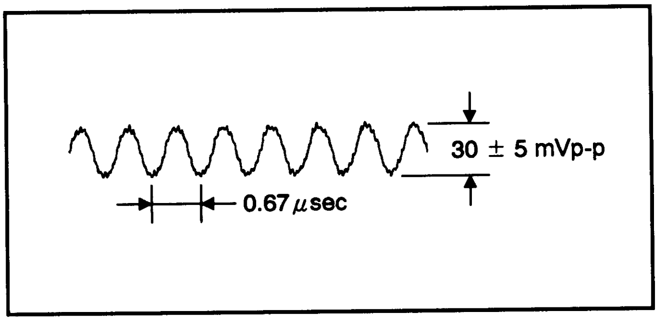
Measuring Point	Measuring Equipment	Condition
TP133 (CH1) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	Color bar (Audio input: No signal)	
ADJ. Location	**ADJ. / Check Value**	
	30 ± 5 mVp-p	

Preparation:

- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

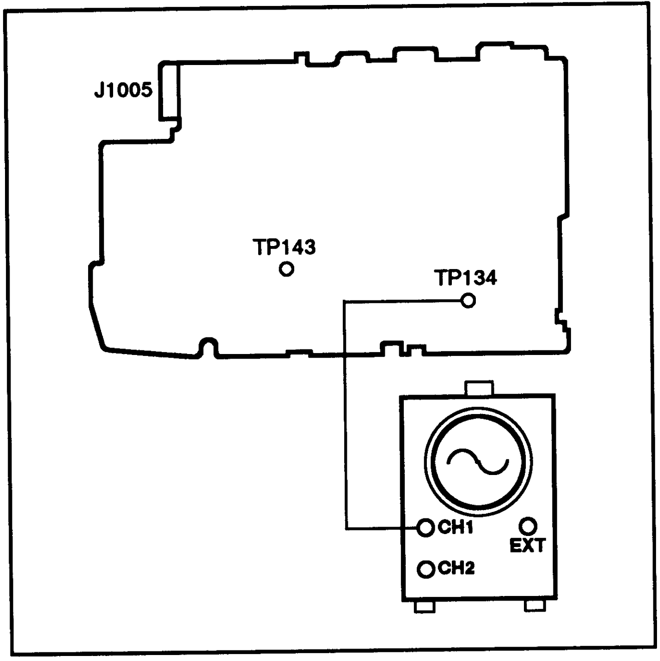
Adjusting / Checking method:

1. Confirm that the oscillation voltage is 30 ± 5 mVp-p.



13. REC ATF Recording Current Check

[Connection]



[Adjustment / Check]

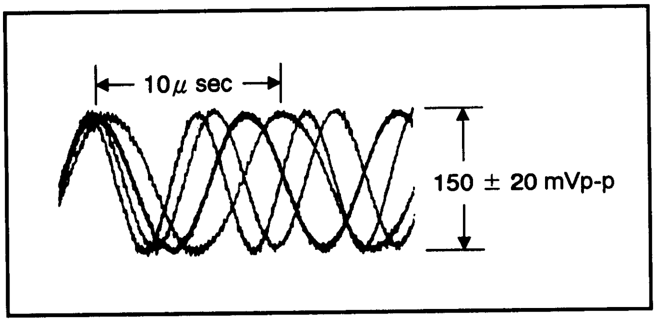
Measuring Point	Measuring Equipment	Condition
TP134 (CH1) TP143 (GND)	Oscilloscope MP type tape	Record
	Input Signal / Alignment Tape	
	Color bar	
ADJ. Location	**ADJ. / Check Value**	
	150 ± 20 mVp-p	

Preparation:

- POWER switch: "CAMERA"
- Stand-by switch: "STANDBY"
- Short pin ⑥, pin ⑪ and pin ⑭ of J1005.

Adjusting / Checking method:

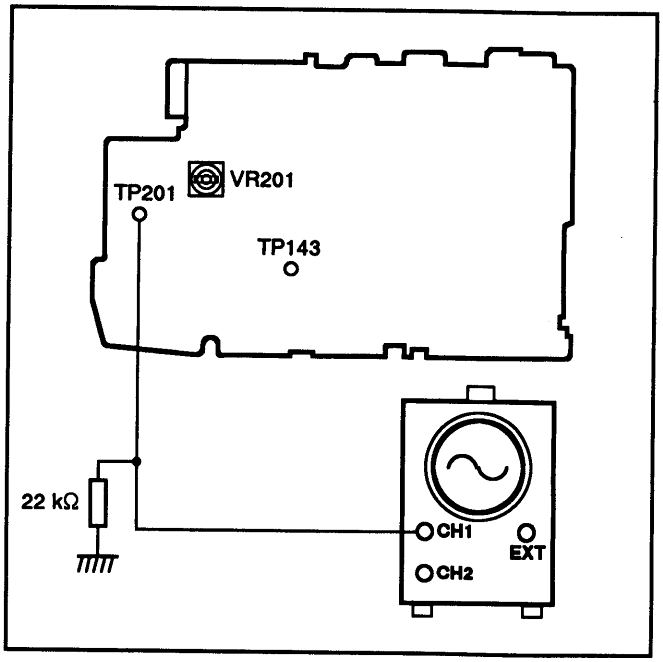
1. Confirm that the oscillation voltage is 150 ± 20 mVp-p.



2-8. AUDIO CIRCUIT

1. fo Adjustment

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
TP201 (CH1) TP143 (GND)	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check Audio input: No signal	
ADJ. Location	**ADJ. / Check Value**	
VR201		

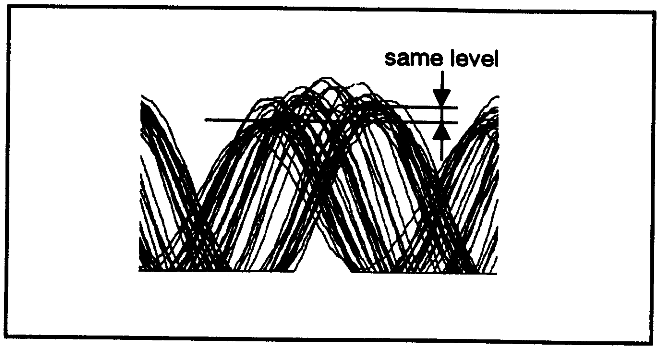
Preparation:

- POWER switch: "PLAYER"

Adjusting / Checking method:

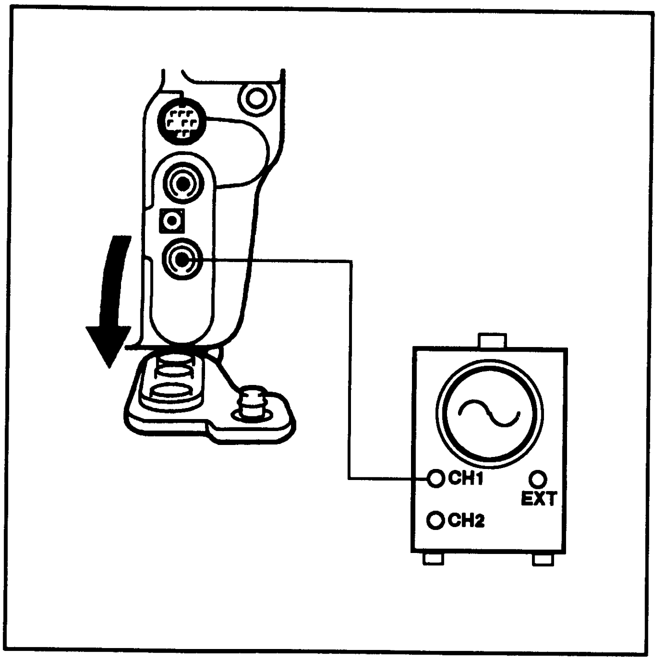
1. Set the oscilloscope to AC 50 mV/div, 0.5μsec/div.
2. Adjust with VR201 so that playback FM waveform has the same amplitude in high frequency range and low frequency range.

- Expand sweep of the time base to 0.1 μsec/div.



2. Deviation Check

[Connection]



[Adjustment / Check]

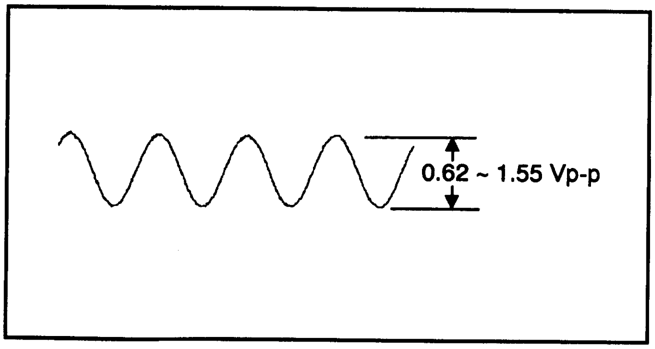
Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope	Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check	
ADJ. Location	**ADJ. / Check Value**	
	0.62 ~ 1.55 Vp-p	

Preparation:

- POWER switch: "PLAYER"

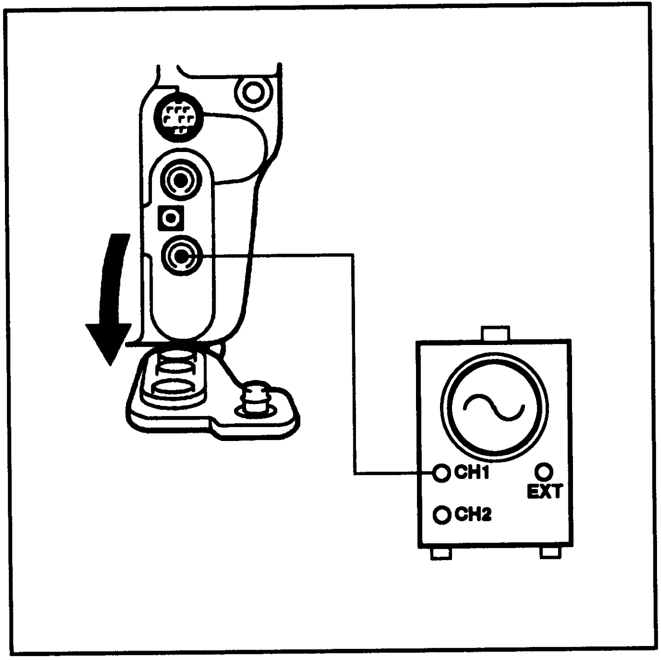
Adjusting / Checking method:

1. Confirm that the audio output level is 0.62 ~ 1.55 Vp-p.



3. Overall Level Check

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope MP type tape	Record and playback (SP)
	Input Signal / Alignment Tape	
	EXT MIC input (CN294): 1 kHz, −66.0 dBs	
ADJ. Location	**ADJ. / Check Value**	
	0.62 ~ 1.55 Vp-p	

Preparation:

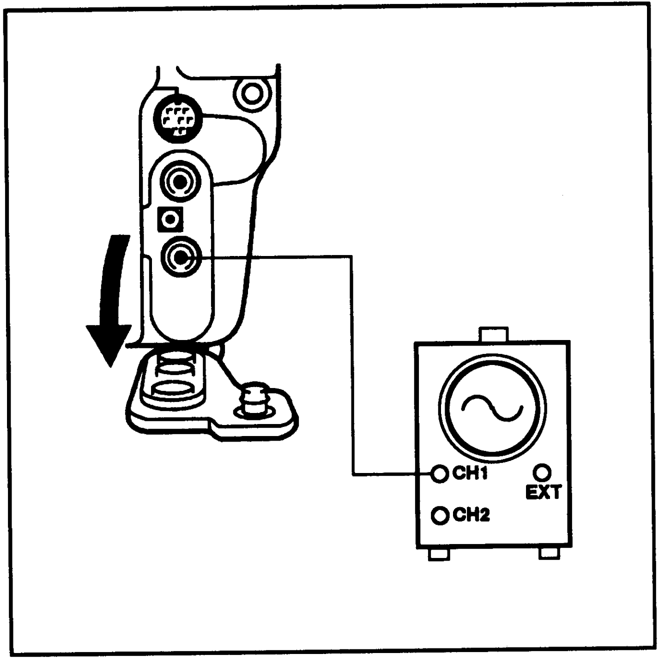
- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

Adjusting / Checking method:

1. Record.
2. Play back the recorded portion.
3. Confirm that the audio output level is 0.62 ~ 1.55 Vp-p.

4. Overall S / N Check

[Connection]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Audio terminal	Oscilloscope MP type tape	Record and playback (SP)
	Input Signal / Alignment Tape	
	Short-circuited at the EXT MIC input (CN294): No signal	
ADJ. Location	**ADJ. / Check Value**	
	Less than 6.9 mVp-p	

Preparation:

- Stand-by switch: "STANDBY"
- POWER switch: "CAMERA" and "PLAYER"

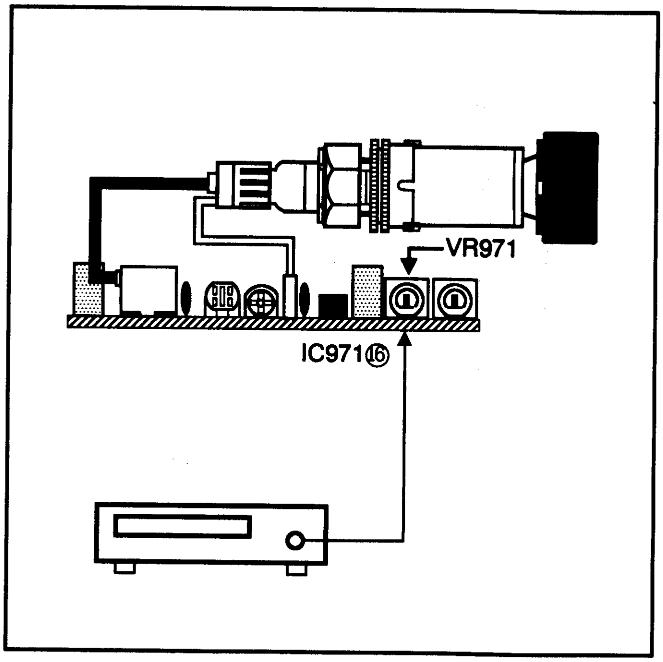
Adjusting / Checking method:

1. Record then play back the recorded portion.
2. Confirm that the residual audio output level is less than 6.9 mVp-p (JIS A audio corrections).
   - Since the audio input level is extreme low, be careful of noise such as inductive hum, etc.

2-9. VIEWFINDER CIRCUIT

1. Horizontal Oscillation Frequency Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
IC971 ⑯, CN971 ② (GND)	Frequency counter	Stop
	Input Signal / Alignment Tape	
	No signal	
ADJ. Location	**ADJ. / Check Value**	
VR971	15,600 ± 100 Hz	

Preparation:

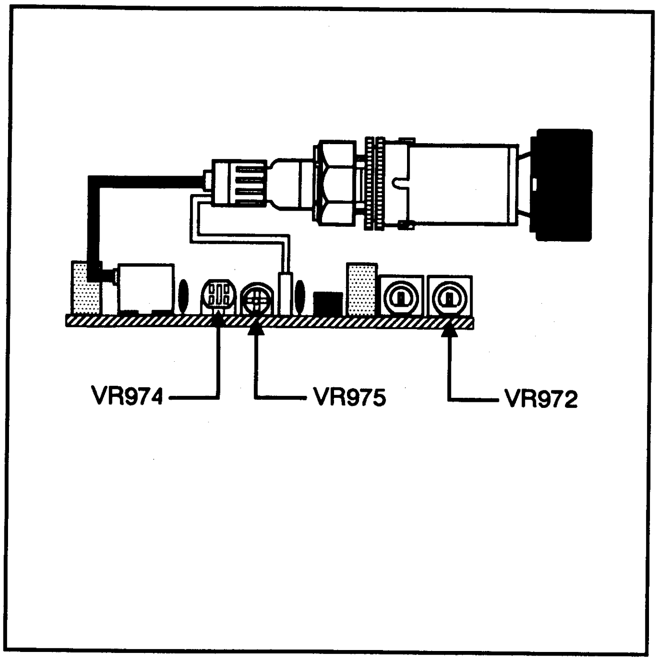
- POWER switch: "PLAYER"

Adjustment:

1. Adjust to 15,600 ± 100 Hz with VR971.

2. Viewfinder Provisional Adjustment

[Adjusting Location]



[Adjustment / Check]

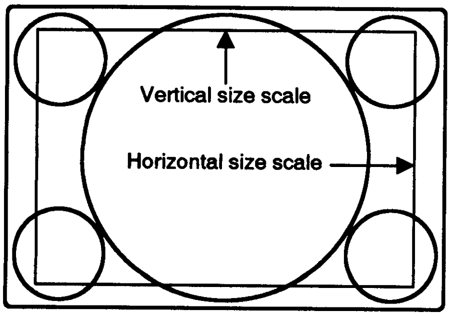
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR972, VR974 VR975		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

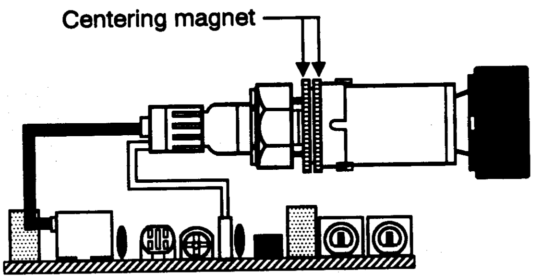
Adjustment:

1. Turn VR975 (BRIGHT) to obtain adequate brightness.
2. Turn VR972 (V SIZE) to adjust picture size.
3. Adjust VR975 (BRIGHT) and VR974 (FOCUS) so that a proper picture display is obtained.



3. Centering Adjustment

[Adjusting Location]

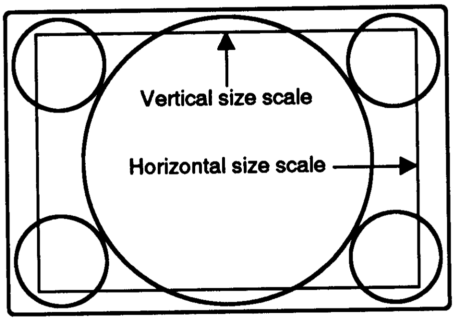

Centering magnet

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	

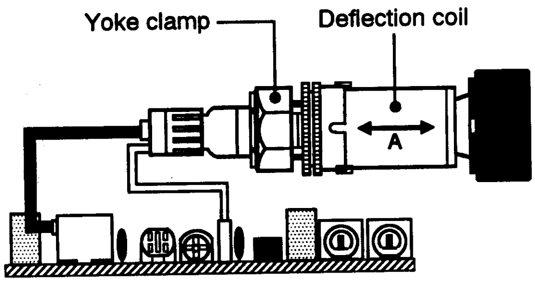
Preparation:
- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

Adjustment:
1. Turn the centering magnet to center the picture.
2. Fix the centering magnet with lacquer.


Vertical size scale
Horizontal size scale

4. Horizontal Size & Viewfinder Slant Adjustment

[Adjusting Location]

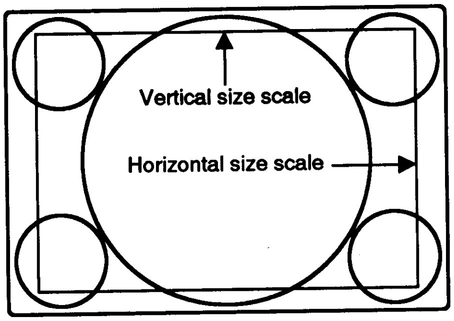

Yoke clamp
Deflection coil
A

[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	ADJ. / Check Value	

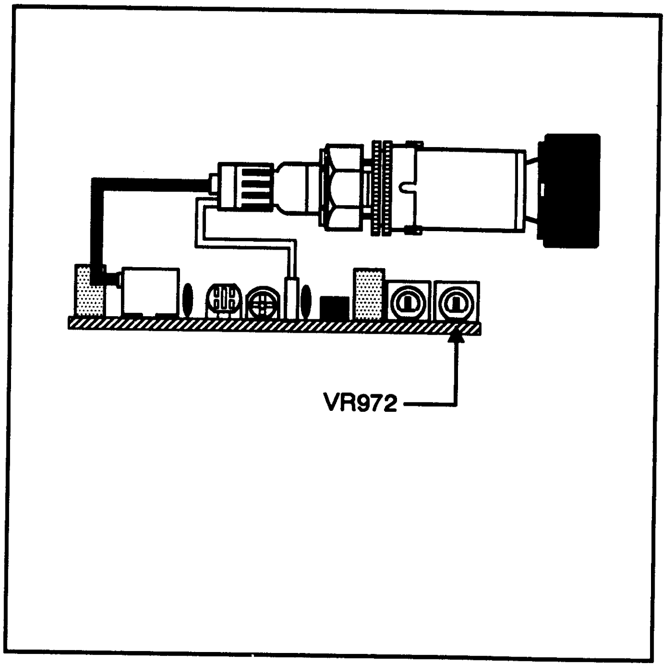
Preparation:
- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

Adjustment:
1. Loosen the yoke clamp, then move the deflection coil in the direction of arrow A, and adjust the horizontal size within 87.5 to 92.5 on the horizontal size scale of the monoscope signal.
2. Turn the deflection coil so that picture slant is within 0 ± 1.5 °. (The difference between right and left should be within 0.5 on the vertical size scale of the monoscope signal).
3. Fix the deflection coil with the yoke clamp.


Vertical size scale
Horizontal size scale

5. Vertical Size Adjustment

[Adjusting Location]



[Adjustment / Check]

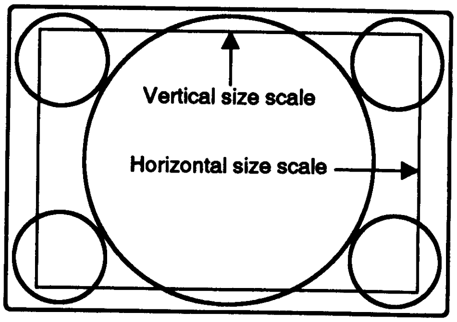
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR972		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

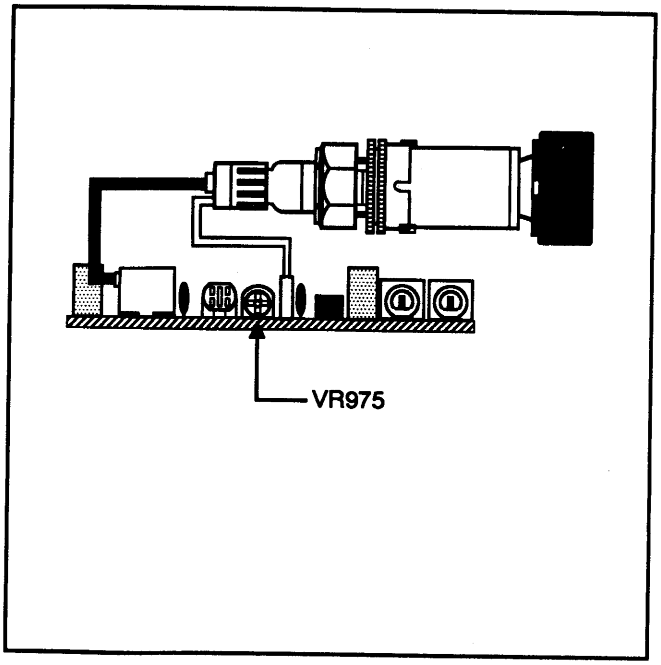
Adjustment:

1. Turn and adjust VR972 within 87.5 to 92.5 on the vertical size scale of the monoscope signal.



6. Brightness Adjustment

[Adjusting Location]



[Adjustment / Check]

Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR975		

Preparation:

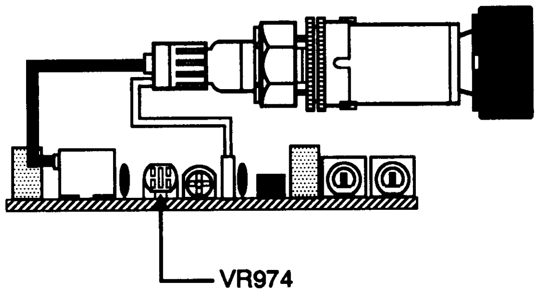
- POWER switch: "PLAYER"

Adjustment:

1. Adjust to adequate brightness with VR975.

7. Focus Adjustment

[Adjusting Location]



[Adjustment / Check]

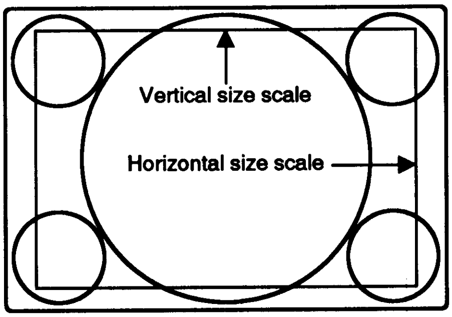
Measuring Point	Measuring Equipment	Condition
Viewfinder		Playback
	Input Signal / Alignment Tape	
	(WR5-5CSP): For operation check, monoscope portion	
ADJ. Location	**ADJ. / Check Value**	
VR974		

Preparation:

- POWER switch: "PLAYER"
- Short pin ⑪ and pin ⑭ of J1005.

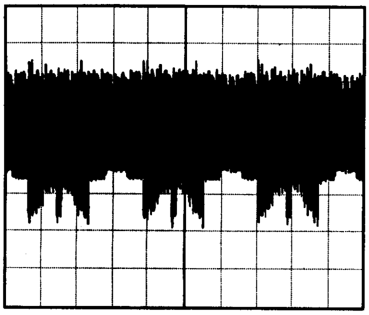
Adjustment:

1. Adjust VR974 so as to optimize resolution of the monoscope pattern.

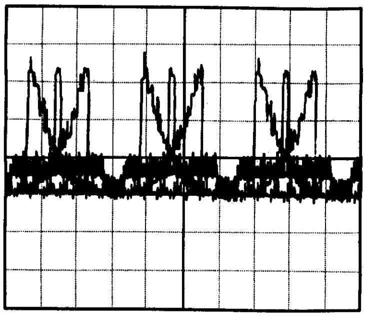

Vertical size scale
Horizontal size scale

6. WAVEFORM

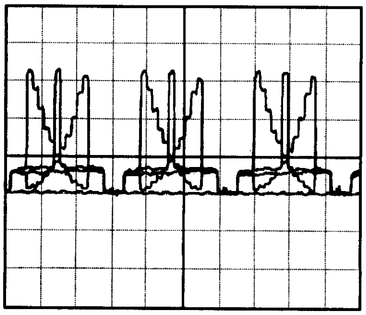
6-1. CAMERA CIRCUIT (CP2 BOARD)



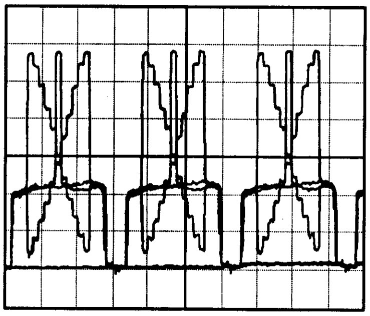
① Q9501 880mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



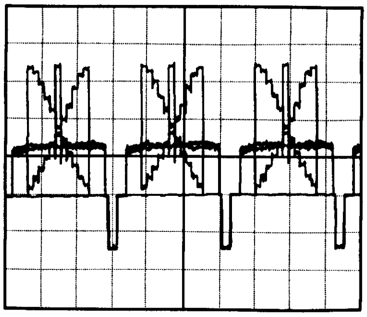
② IC917-3 700mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



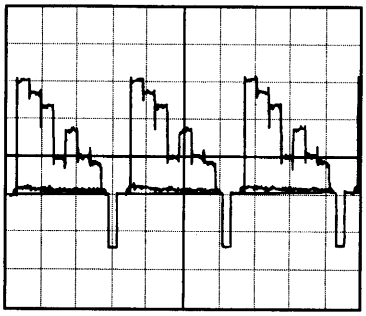
③ IC914-64 320mVp-p
0.1V/20μs/div.
[Gray Scale Chart]



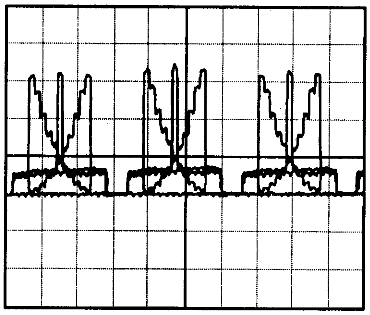
④ IC914-6 1360mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



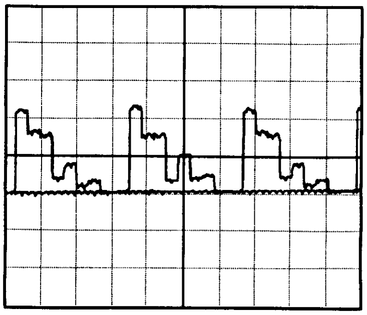
⑤ IC912-22 960mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



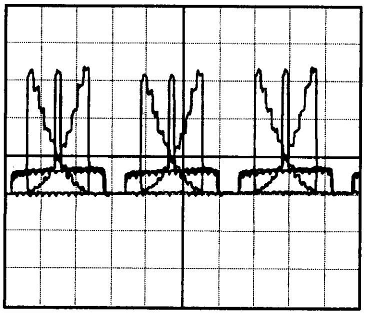
⑤ IC912-22 880mVp-p
0.2V/20μs/div.
[Color Bar Chart]



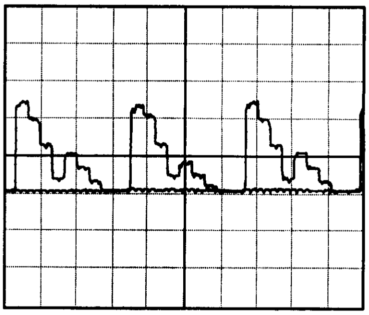
⑥ IC917-4 660mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



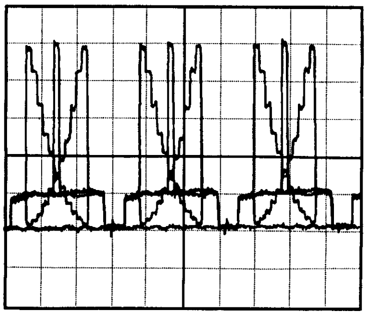
⑥ IC917-4 480mVp-p
0.2V/20μs/div.
[Color Bar Chart]



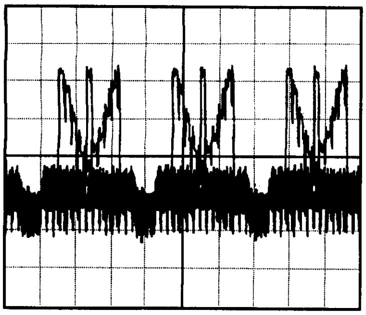
⑦ IC917-5 640mVp-p
0.2V/20μs/div.
[Gray Scale Chart]



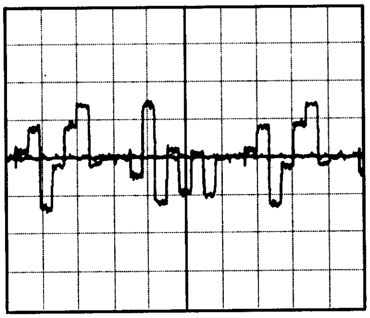
⑦ IC917-5 480mVp-p
0.2V/20μs/div.
[Color Bar Chart]



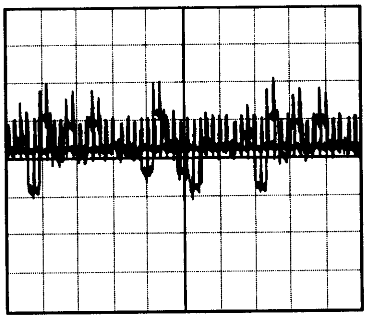
⑧ IC914-52 250mVp-p
50mV/20μs/div.
[Gray Scale Chart]



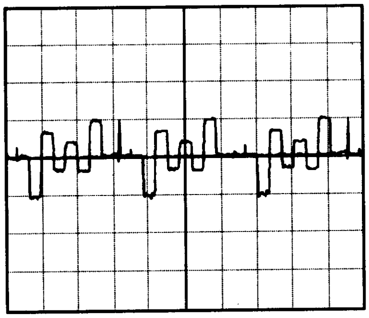
⑨ IC913-11 180mVp-p
50mV/20μs/div.
[Gray Scale Chart]



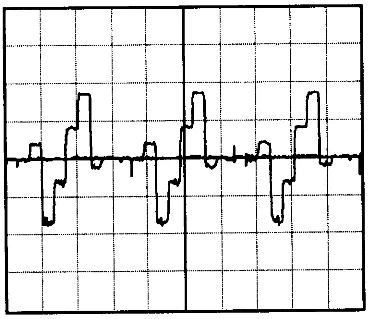
⑩ *IC914-46 140mVp-p*
50mV/20μs/div.
[Color Bar Chart]



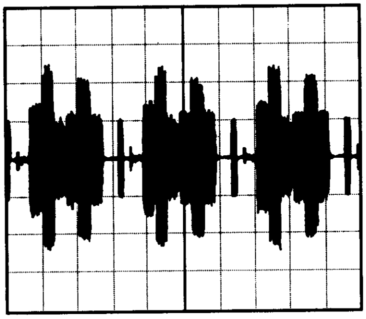
⑪ *IC913-14 100mVp-p*
50mV/20μs/div.
[Color Bar Chart]



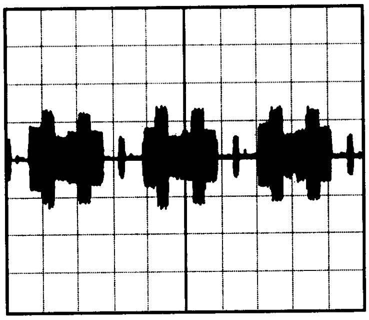
⑫ *IC914-19 400mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



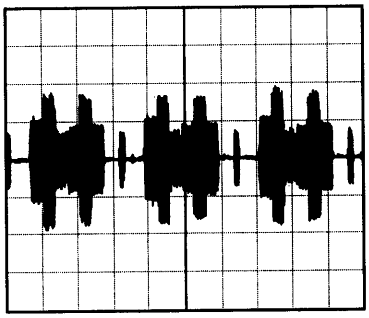
⑬ *IC914-20 700mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



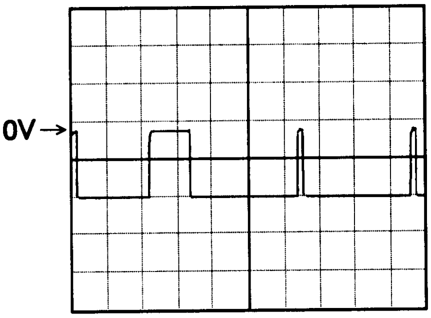
⑭ *IC912-16 960mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



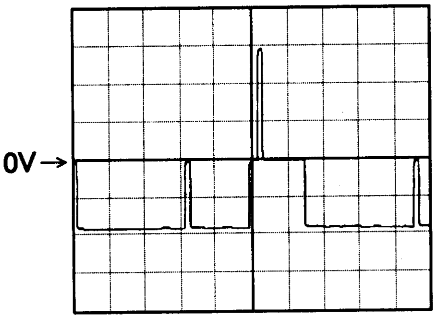
⑮ *IC912-18 540mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



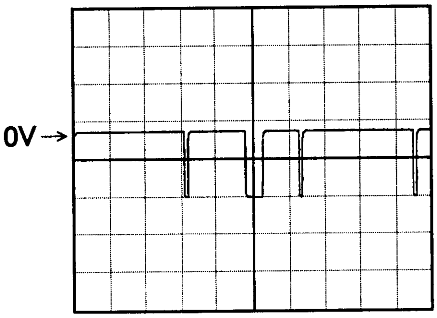
⑯ *IC912-20 680mVp-p*
0.2V/20μs/div.
[Color Bar Chart]



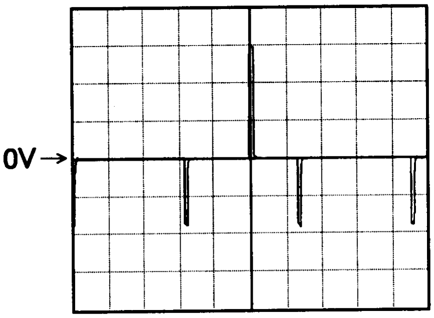
⑰ *IC951-1 8.5Vp-p*
5.0V/20μs/div.



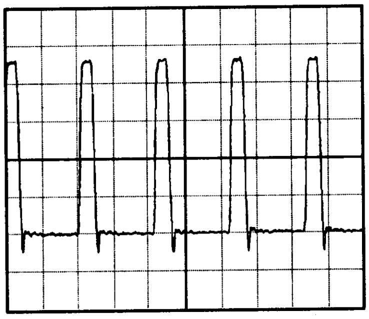
⑱ *IC951-2 23.5Vp-p*
5.0V/20μs/div.



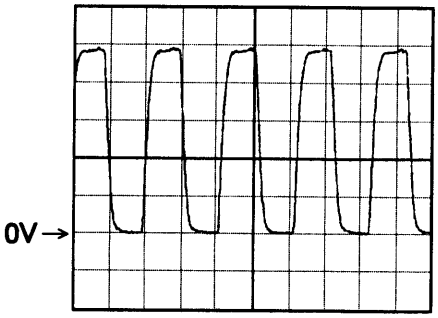
⑲ *IC951-3 8.5Vp-p*
5.0V/20μs/div.



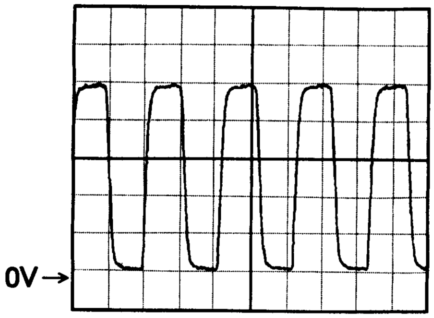
⑳ *IC951-4 23.5Vp-p*
5.0V/20μs/div.



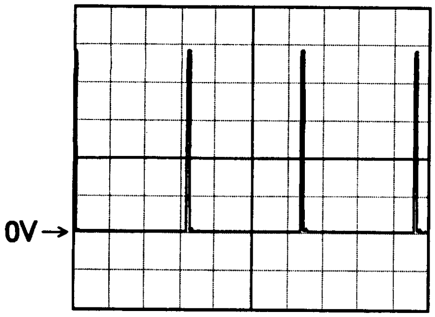
㉑ *IC951-13 4.6Vp-p*
1.0V/50ns/div.



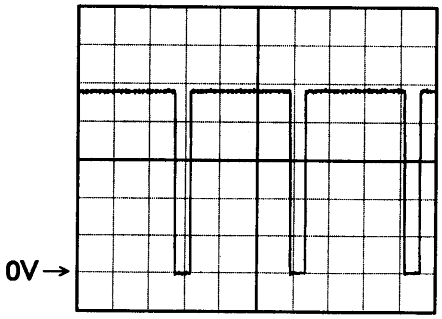
㉒ *IC951-15 4.9Vp-p*
1.0V/50ns/div.



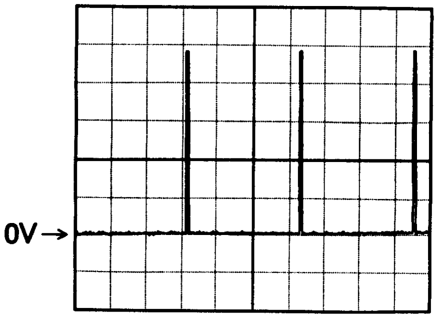
㉓ *IC951-16 4.9Vp-p*
1.0V/50ns/div.



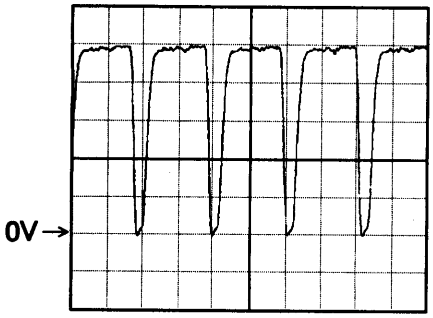
㉔ *IC917-13 5.0Vp-p*
1.0V/20μs/div.



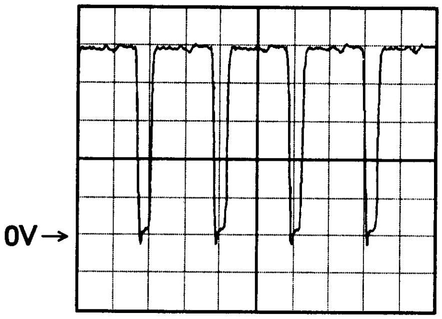
㉕ *IC917-14 4.8Vp-p*
1.0V/20μs/div.



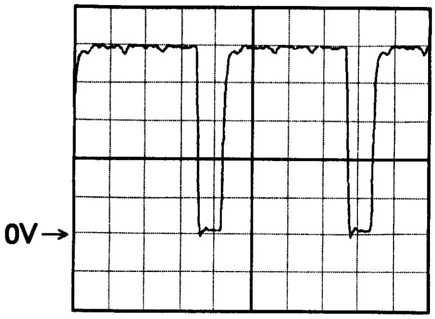
㉖ *IC917-36 4.8Vp-p*
1.0V/20μs/div.



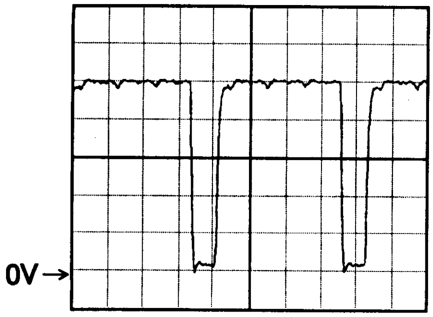
㉗ *IC917-34 5.0Vp-p*
1.0V/50ns/div.



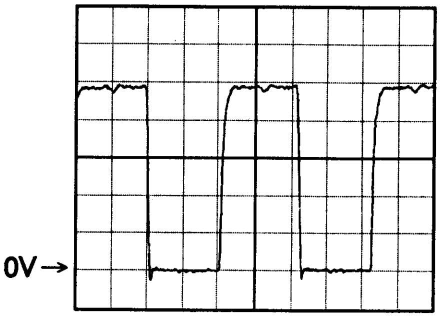
㉘ *IC917-35 5.0Vp-p*
1.0V/50ns/div.



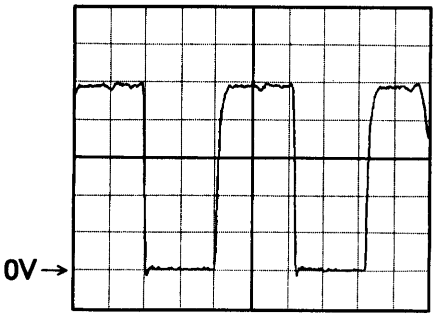
㉙ *IC917-42 5.0Vp-p*
1.0V/50ns/div.



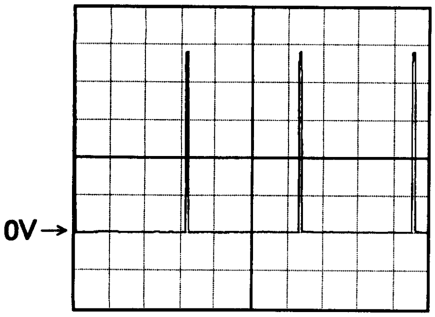
㉚ *IC917-41 5.0Vp-p*
1.0V/50ns/div.



㉛ *IC917-1 5.0Vp-p*
1.0V/50ns/div.

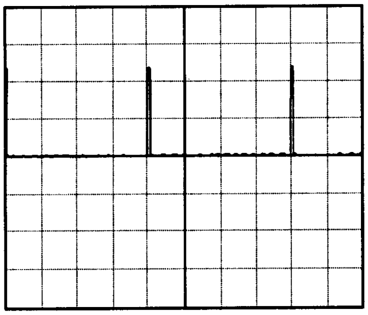


㉜ *IC917-48 5.0Vp-p*
1.0V/50ns/div.

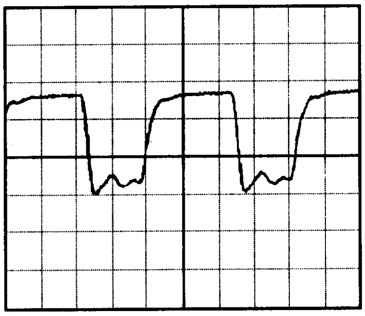


㉝ *IC914-10 4.8Vp-p*
1.0V/20μs/div.

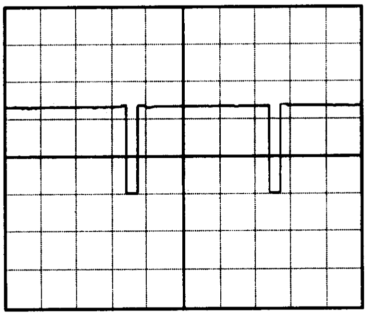
(CP2 BOARD TC-A BLOCK)



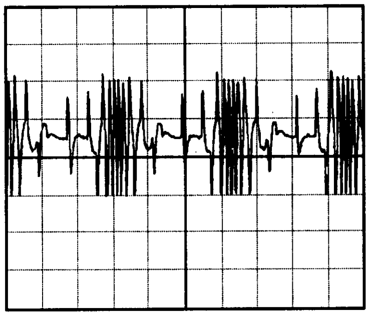
① *IC931-7 4.97Vp-p*
2.0V/5ms/div.



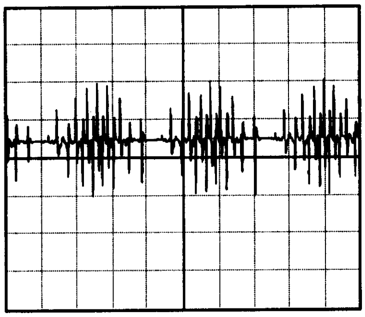
② *IC931-27 5.47Vp-p*
2.0V/20ns/div.



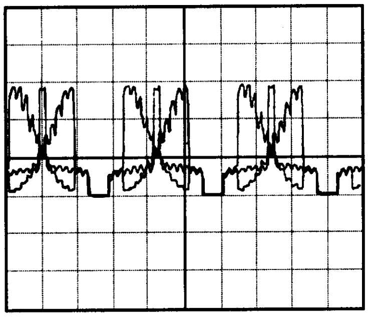
③ *IC931-30 4.81Vp-p*
2.0V/5ms/div.



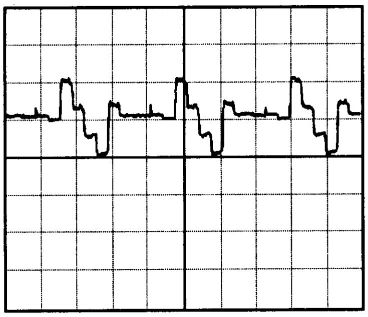
④ *IC931-34 3.25Vp-p*
1.0V/20μs/div.



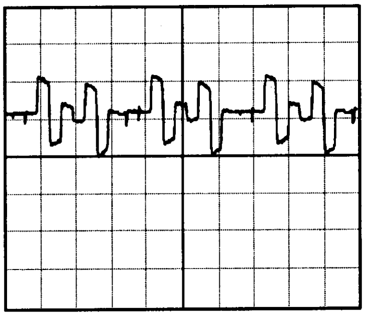
⑤ *IC931-35 1.5Vp-p*
0.5V/20μs/div.



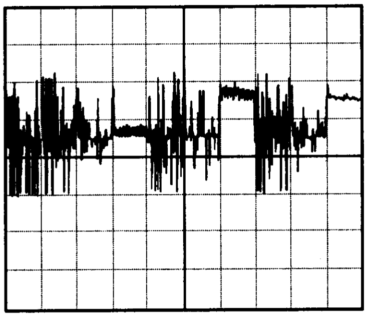
⑥ *IC931-40 1.44Vp-p*
0.5V/20μs/div.
[Gray Scale Chart]



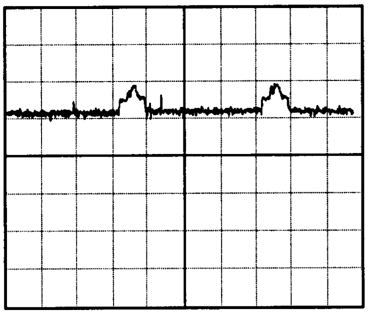
⑦ *IC931-43 2.12Vp-p*
1.0V/20μs/div.
[Color Bar Chart]



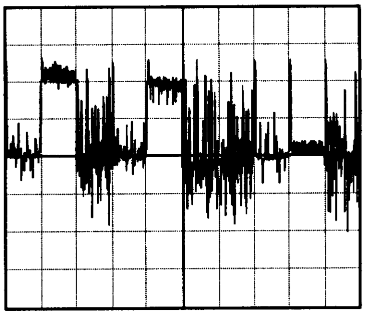
⑧ *IC931-45 2.15Vp-p*
1.0V/20μs/div.
[Color Bar Chart]



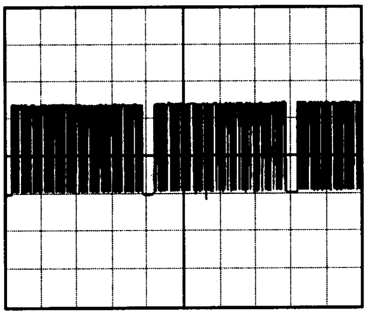
⑨ *IC931-50 3.33Vp-p*
1.0V/20ms/div.



⑩ *IC931-51 43.5mVp-p*
50mV/5ms/div.

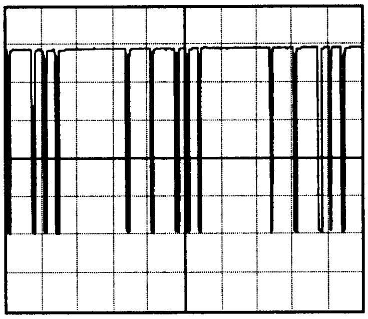


⑪ *IC931-52 2.26Vp-p*
0.5V/20ms/div.

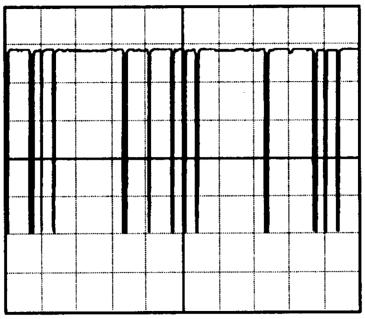


⑫ *IC931-55 4.8Vp-p*
2.0V/5ms/div.

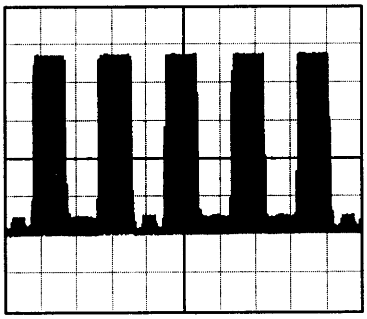
6-2. SERVO/SYSTEM CONTROL CIRCUIT



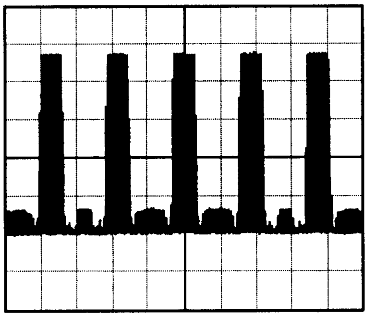
① *IC351-82 4.8Vp-p*
1.0V/5ms/div.



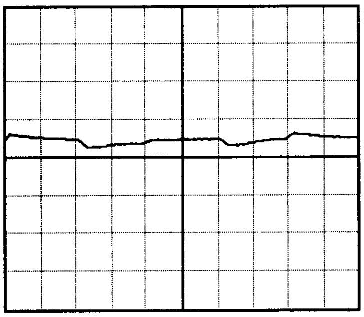
② *IC351-84 4.8Vp-p*
1.0V/5ms/div.



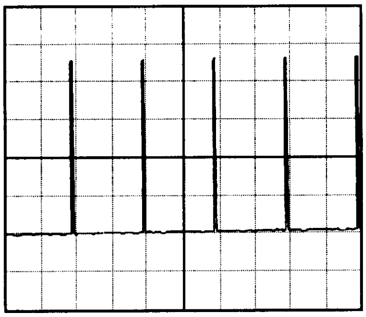
③ *IC351-98 4.7Vp-p*
1.0V/500ms/div.
[REC]



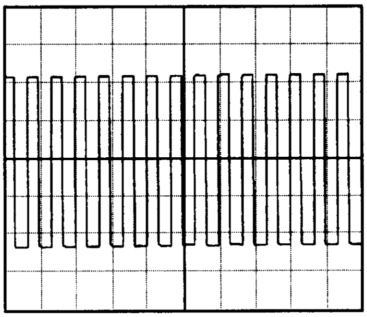
④ *IC351-99 4.73Vp-p*
1.0V/500ms/div.
[REC]



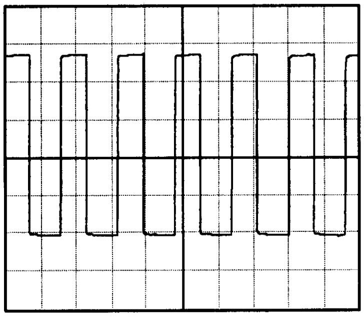
⑤ *IC351-108 310mVp-p*
1.0V/5ms/div.
[PLAY]



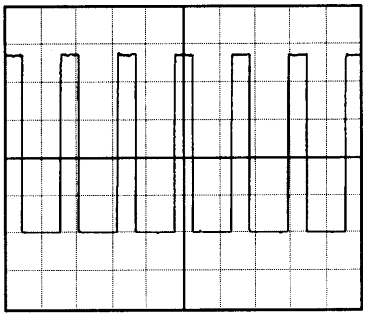
⑥ *IC351-120 4.57Vp-p*
1.0V/20ms/div.
[REC/PLAY]



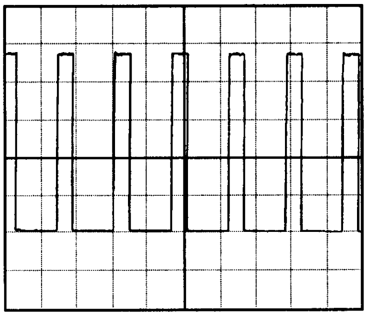
⑦ *IC351-121 4.54Vp-p*
1.0V/5ms/div.
[REC/PLAY]



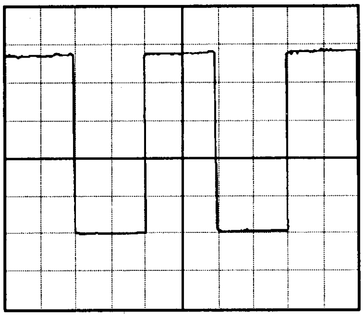
⑧ *IC351-122 4.8Vp-p*
1.0V/500μs/div.
[REC/PLAY]



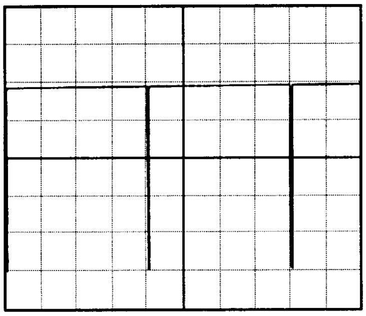
⑨ *IC351-2 4.72Vp-p*
1.0V/10μs/div.
[REC/PLAY]



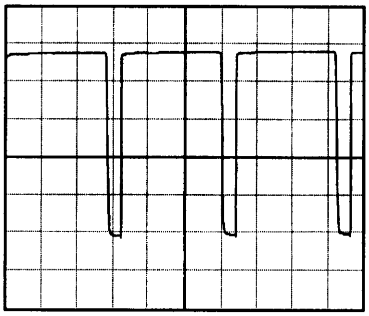
⑩ *IC351-3 4.8Vp-p*
1.0V/10μs/div.
[REC/PLAY]



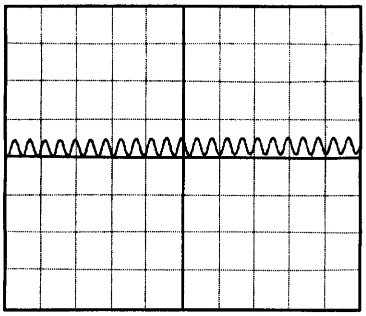
⑪ *IC351-14 4.76Vp-p*
1.0V/10ms/div.
[REC/PLAY]



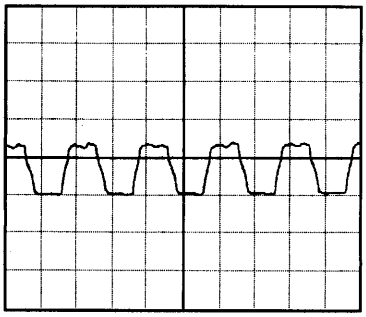
⑫ *IC321-18 4.88Vp-p*
1.0V/5ms/div.



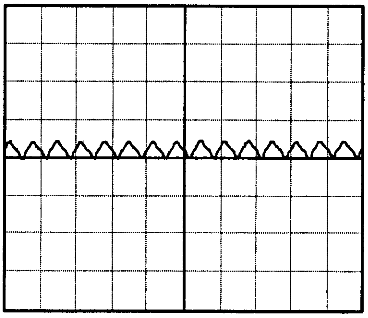
⑬ *IC321-19 4.9Vp-p*
1.0V/20µs/div.



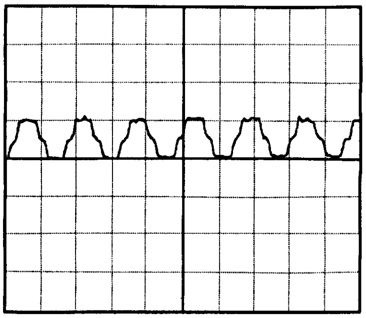
⑭ *IC351-106 600mVp-p*
1.0V/20µs/div.
[REC]



⑮ *IC381-1•2•36 1.28Vp-p*
1.0V/5ms/div.
[REC/PLAY]

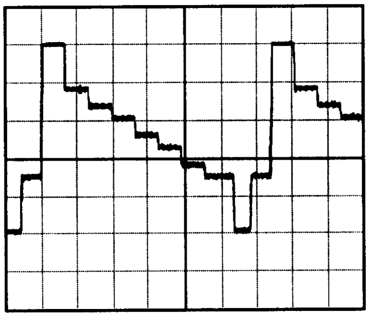


⑯ *IC381-30 430mVp-p*
1.0V/5ms/div.
[REC/PLAY]

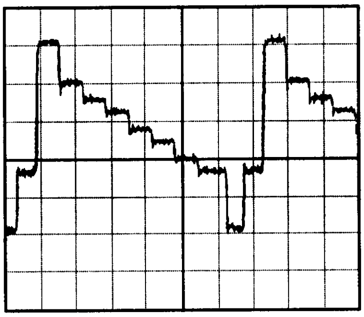


⑰ *IC361-3•27•28 1.0Vp-p*
1.0V/50ms/div.
[REC/PLAY]

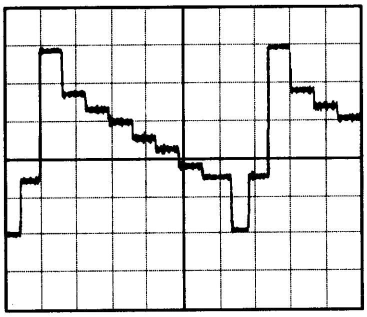
6-3. VIDEO CIRCUIT



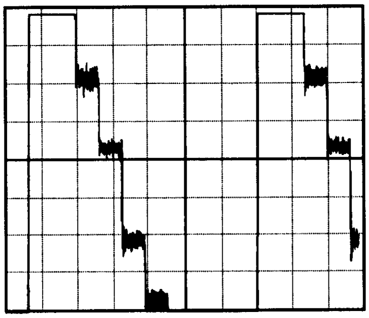
① *TP103 500mVp-p*
0.1V/10μs/div.
[REC]



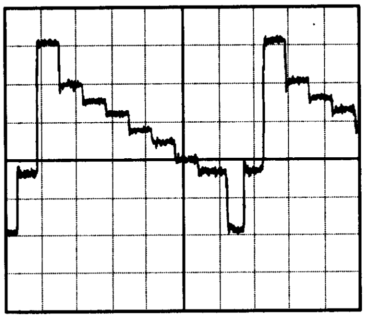
① *TP103 500mVp-p*
0.1V/10μs/div.
[PLAY]



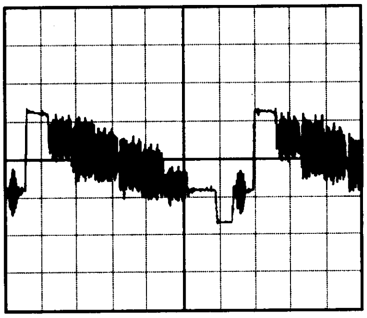
② *TP101 500mVp-p*
0.1V/10μs/div.



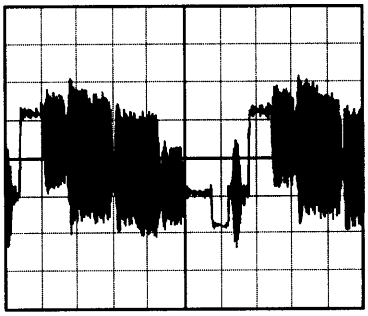
② *TP101 6.86mVp-p*
50mV/10μs/div.
[REC]



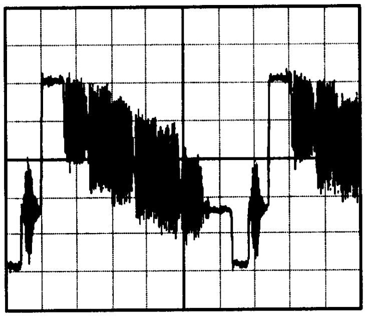
② *TP101 520mVp-p*
0.1V/10μs/div.
[PLAY]



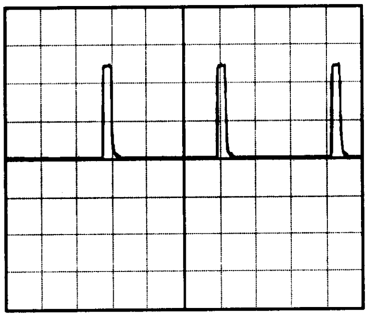
③ *IC101-19 290mVp-p*
0.1V/10μs/div.
[PLAY]



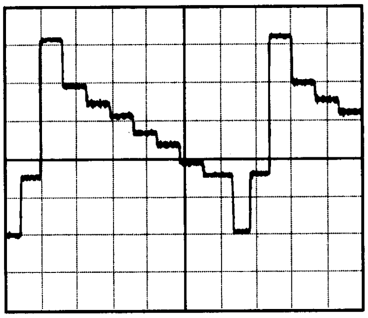
④ *IC101-21 300mVp-p*
0.1V/10μs/div.
[PLAY]



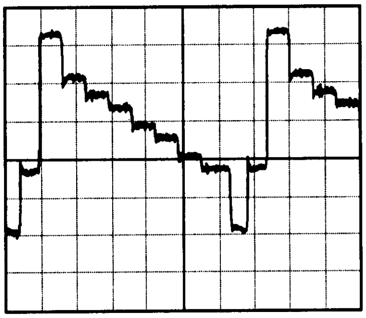
⑤ *IC101-23 500mVp-p*
0.1V/10μs/div.
[PLAY]



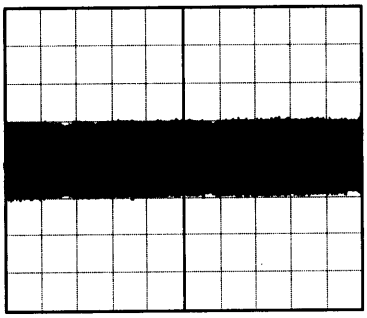
⑥ *TP105 2.5Vp-p*
1.0V/20μs/div.
[REC]



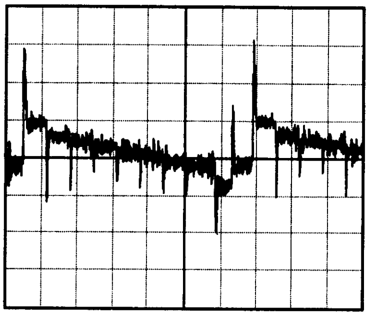
⑦ *IC101-34 500mVp-p*
0.1V/10μs/div.
[REC]



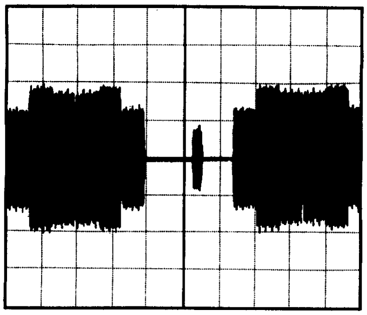
⑦ *IC101-34 500mVp-p*
0.1V/10μs/div.
[PLAY]



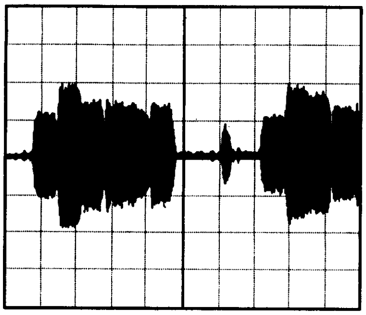
⑧ *IC101-41 190mVp-p*
0.1V/5ms/div.
[PLAY]



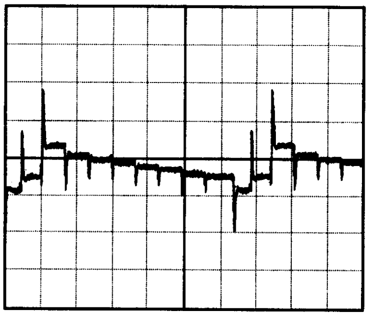
⑨ *IC101-7 550mVp-p*
0.1V/10μs/div.
[PLAY]



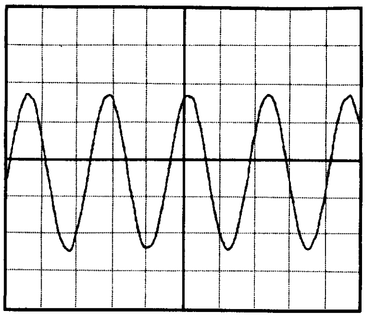
⑩ *IC101-64 420mVp-p*
0.1V/10μs/div.
[REC]



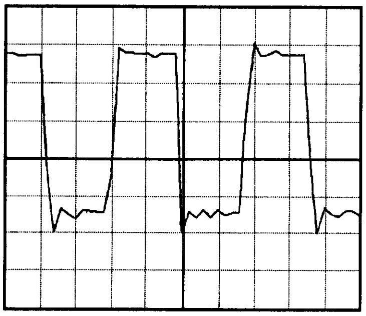
⑩ *IC101-64 410mVp-p*
0.1V/10μs/div.
[PLAY]



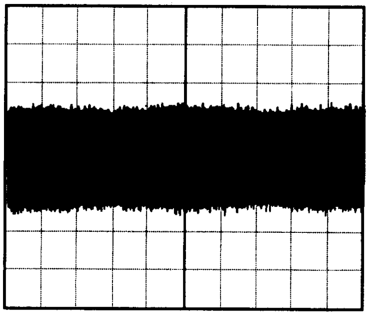
⑪ *IC101-10 796mVp-p*
0.2V/10μs/div.
[REC]



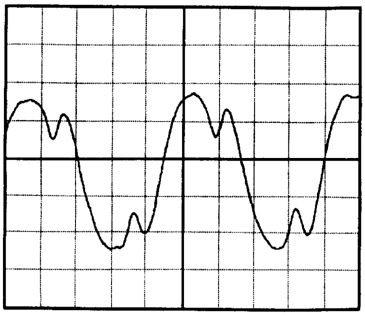
⑫ *IC101-61 420mVp-p*
0.1V/100ns/div.
[REC]



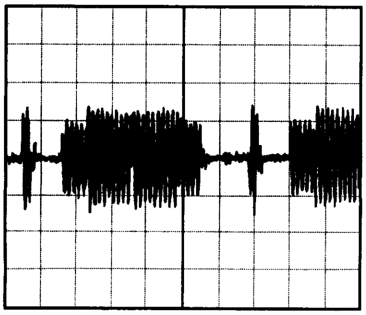
⑬ *TP102 500mVp-p*
0.1mV/50ns/div.
[REC]



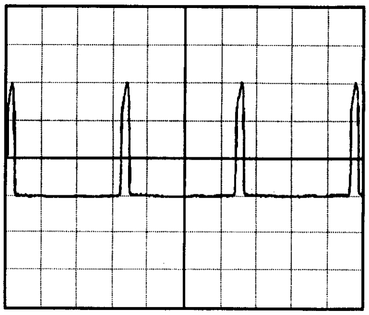
⑭ *IC191-16 440mVp-p*
0.2V/5ms/div.
[PLAY]



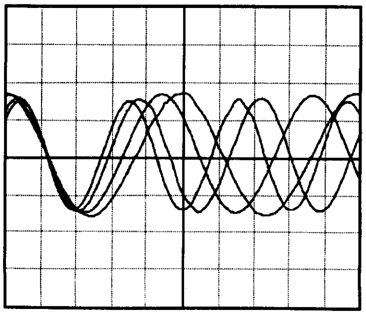
⑮ *TP131 210mVp-p*
50mV/50ns/div.
[REC]



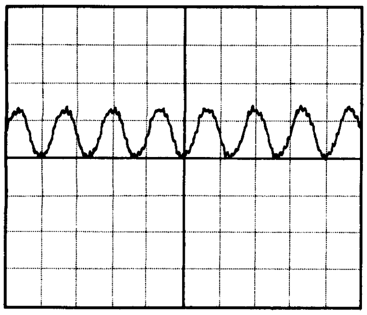
⑯ *TP132 130mVp-p*
50mV/10μs/div.
[REC]



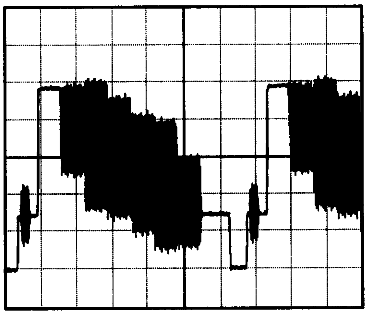
⑰ *IC161-10 3.0Vp-p*
1.0V/20μs/div.
[PLAY]



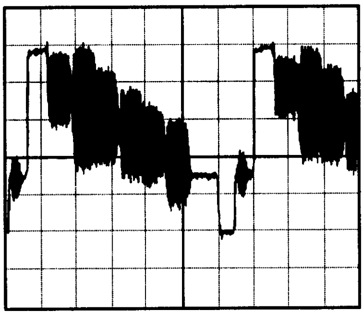
⑱ *TP134 150mVp-p*
50mV/2μs/div.
[REC]



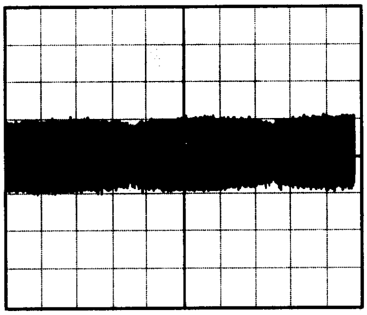
⑲ *TP133 30.0mVp-p*
20mV/500ns/div.
[REC]



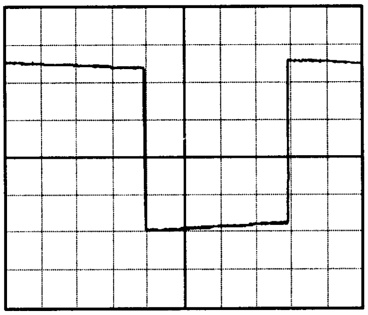
⑳ *TP141 1.0Vp-p*
0.2V/10µs/div.
[REC]



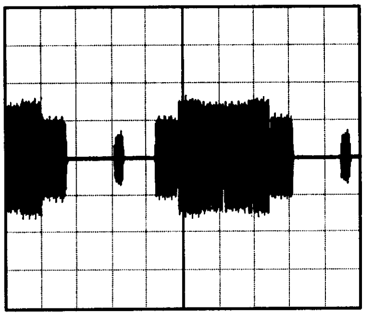
⑳ *TP141 1.0Vp-p*
0.2V/10µs/div.
[PLAY]



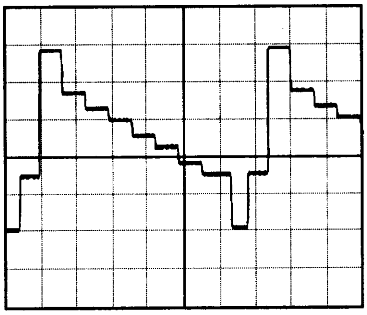
㉑ *J1005-3 800mVp-p*
0.5V/5ms/div.
[PLAY]



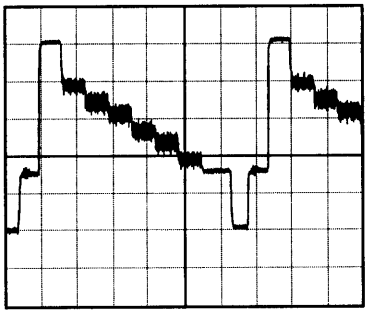
㉒ *J1005-2 4.3Vp-p*
1.0V/5ms/div.
[PLAY]



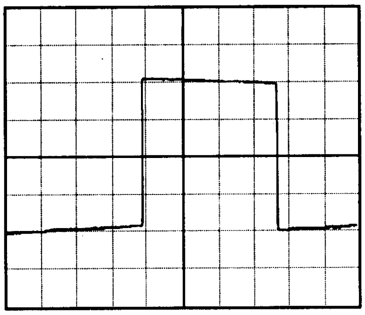
㉓ *CN105-12 976mVp-p*
0.2V/10µs/div.
[REC]



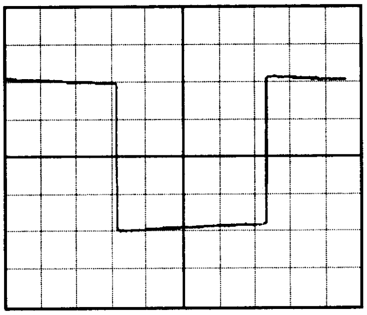
㉔ *CN105-14 976mVp-p*
0.2V/10µs/div.
[REC]



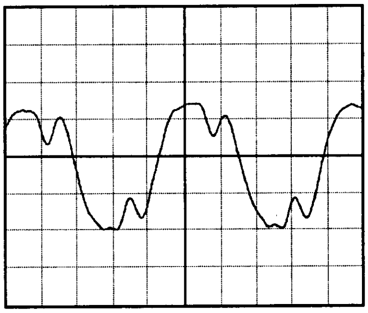
㉕ *CN103-3 1.02Vp-p*
0.2V/10µs/div.
[REC]



㉖ *IC191-45 3.9Vp-p*
1.0V/5ms/div.
[REC]

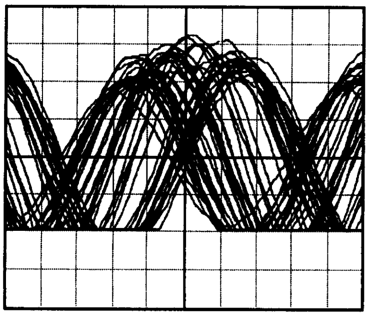


㉗ *IC191-47 3.9Vp-p*
1.0V/5ms/div.
[REC]

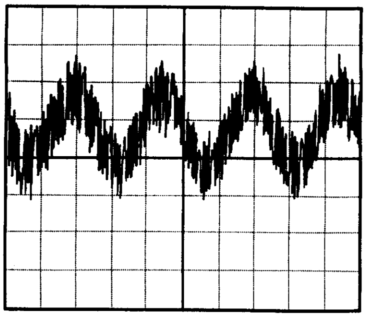


㉘ *TP191 160mVp-p*
50mV/50ns/div.
[REC]

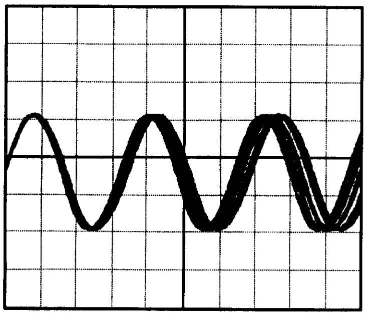
6-4. AUDIO CIRCUIT



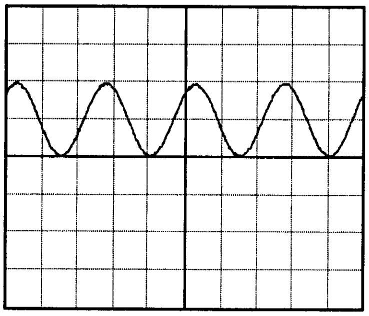
① *IC201-4 50.7mVp-p*
10mV/100μs/div.



② *IC201-6 799mVp-p*
200mV/1ms/div.

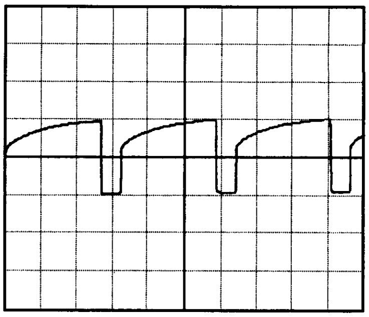


③ *IC201-8 314mVp-p*
100mV/200ns/div.

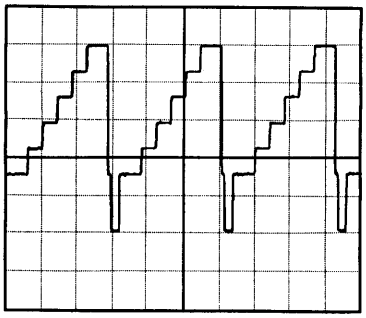


④ *IC201-33 384mVp-p*
150mV/1ms/div.

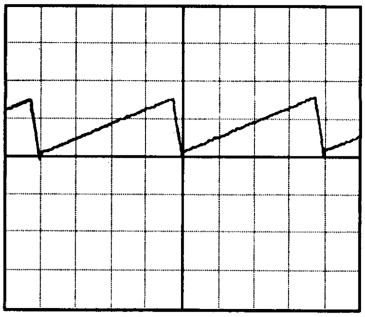
6-5. VIEWFINDER CIRCUIT



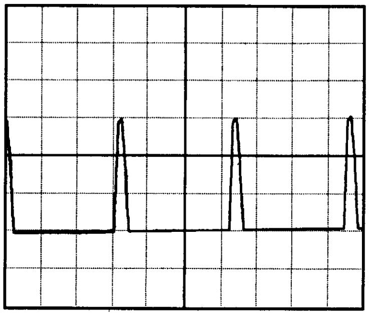
① *IC971-16 2.0Vp-p*
1.0V/20μs/div.



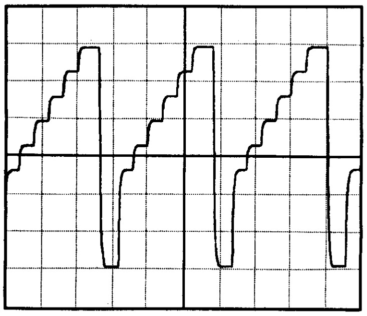
② *IC971-11 0.98Vp-p*
0.2V/20μs/div.



③ *CN972-1 1.02Vp-p*
1.0V/5ms/div.



④ *FBT-4 60.0Vp-p*
20.0V/20μs/div.



⑤ *D9701 Cathode 1.02Vp-p*
2.0V/20μs/div.

7. VOLTAGE CHART

7-1. CAMERA CIRCUIT (TC-1 BOARD)

MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA		MODE	CAMERA	
PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP	PIN NO.	ON	STOP
IC931			50	2.8	–	35	4.8	–	4	0.0	0.0	5	3.0	3.0	1	–	–
1	–	–	51	4.9	–	36	4.8	–	5	–	–	6	0.0	0.0	2	–	–
2	–	–	52	2.8	–	37	4.8	–	6	–	–	Q9302			3	4.9	4.9
3	–	–	53	–	–	38	4.8	–	7	–	–	1	0.5	0.0	4	–	–
4	0.0	0.0	54	2.7	2.7	39	–	–	8	–	–	2	1.0	1.0	5	–	–
5	0.0	0.0	55	3.8	–	40	–	–	9	–	–	3	4.9	4.9	6	4.9	4.9
6	4.9	4.9	56	4.9	4.9	41	0.0	–	10	4.8	4.8	4	2.1	2.1	Q9331		
7	4.9	–	57	–	–	42	0.4	–	11	0.0	0.0	5	2.7	2.7	1	0.5	0.5
8	0.0	0.0	58	2.4	–	43	4.9	–	12	6.6	6.6	6	2.7	2.7	2	1.0	1.0
9	4.9	4.9	59	2.3	–	44	0.0	–	13	–	–	Q9304			3	4.9	4.9
10	4.8	–	60	4.9	4.9	45	3.2	–	14	0.1	–	1	2.1	2.1	4	2.1	–
11	4.8	–	61	0.0	0.0	46	1.5	–	15	–	–	2	2.7	2.7	5	2.7	–
12	4.8	–	62	0.0	0.0	47	–	–	16	0.0	0.0	3	4.8	4.8	6	2.7	–
13	4.8	–	63	–	0.0	48	4.8	–	17	–	–	4	2.1	2.1	Q9332		
14	4.8	–	64	0.0	0.0	49	–	–	18	0.1	–	5	2.7	2.7	1	0.5	0.5
15	4.8	–	IC932			50	–	–	19	–	–	6	4.9	4.9	2	1.0	1.0
16	4.8	–	1	0.0	0.0	51	–	–	20	6.6	6.6	Q9305			3	4.9	4.9
17	0.0	0.0	2	–	–	52	4.9	–	21	1.4	–	1	0.5	0.5	4	2.1	–
18	4.8	–	3	–	–	53	4.8	4.8	22	14.2	–	2	1.0	1.0	5	2.7	–
19	4.8	–	4	1.1	–	54	2.8	–	23	12.2	–	3	4.9	4.9	6	2.7	–
20	4.9	4.9	5	2.1	–	55	2.6	–	24	7.3	–	4	2.1	2.1			
21	0.0	0.0	6	3.5	–	56	0.0	0.0	25	2.4	–	5	2.7	2.7			
22	0.0	0.0	7	–	–	57	4.8	–	26	2.4	–	6	2.7	2.7			
23	4.9	4.9	8	0.0	–	58	4.8	–	27	0.0	–	Q9306					
24	4.9	4.9	9	0.0	0.0	59	–	–	28	–	–	1	0.5	0.5			
25	4.9	4.9	10	0.0	0.0	60	–	–	29	4.9	4.9	2	1.0	1.0			
26	0.0	0.0	11	2.9	–	61	4.9	–	30	4.9	–	3	4.9	4.9			
27	2.9	–	12	–	–	62	4.9	–	IC935			4	2.1	2.1			
28	4.9	–	13	0.0	0.0	63	4.9	–	1	1.9	1.7	5	2.7	0.0			
29	4.9	–	14	4.9	4.9	64	4.7	–	2	1.8	1.7	6	2.7	2.7			
30	4.5	–	15	4.8	–	65	4.5	–	3	1.9	1.7	Q9311					
31	0.1	–	16	4.9	–	66	0.0	–	4	0.0	0.0	1	2.0	2.0			
32	0.0	0.0	17	4.9	–	67	–	–	5	2.5	0.8	2	2.7	2.7			
33	–	–	18	–	–	68	–	–	6	2.5	0.7	3	0.0	0.0			
34	2.7	2.7	19	4.9	–	69	0.0	–	7	3.3	4.9	4	2.7	2.7			
35	2.7	2.7	20	–	–	70	0.0	–	8	4.9	4.9	5	2.0	2.0			
36	–	–	21	–	–	71	0.0	–	IC936			6	4.9	4.9			
37	–	–	22	–	–	72	–	–	1	2.7	1.4	Q9313					
38	3.7	3.7	23	4.4	–	73	–	–	2	2.4	2.4	B	4.9	4.9			
39	3.9	3.9	24	0.0	–	74	–	–	3	2.4	2.4	C	6.8	6.8			
40	2.9	2.7	25	–	–	75	4.9	4.9	4	0.0	0.0	E	4.9	4.9			
41	2.7	2.7	26	–	–	76	5.0	5.0	5	0.0	0.0	Q9315					
42	3.5	–	27	–	–	77	0.0	0.0	6	0.0	0.0	B	2.7	–			
43	3.8	–	28	–	–	78	0.0	–	7	–	–	C	–	–			
44	3.8	3.8	29	–	–	79	0.0	0.0	8	4.9	4.9	E	0.0	–			
45	3.8	–	30	0.1	–	80	4.9	–	Q9301			Q9320					
46	0.0	0.0	31	4.8	–	IC933			1	3.3	2.3	B	2.4	2.4			
47	4.8	4.8	32	4.8	–	1	0.0	0.0	2	2.7	2.7	C	4.9	4.9			
48	–	–	33	4.8	–	2	0.0	–	3	0.0	0.0	E	1.9	1.9			
49	0.0	0.0	34	4.8	–	3	–	–	4	3.3	2.3	Q9322					

7-2. SERVO/SYSTEM CONTROL CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
IC321							
1	–	–	–	–	–	–	–
2	4.8	4.8	4.8	4.8	4.8	4.8	4.8
3	0.1	0.2	0.2	0.2	0.2	0.1	0.1
4	4.3	3.9	4.0	4.1	4.0	4.1	4.3
5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
6	5.0	4.9	4.9	4.9	4.9	4.9	4.9
7	–	–	–	–	–	–	–
8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
9	2.7	2.7	2.7	2.7	2.7	2.7	2.7
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	–	–	–	–	–	–	–
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.1	0.1	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.1	0.1	0.1	0.0	0.2	0.2	0.1
17	–	–	–	–	–	–	–
18	4.9	4.9	4.9	4.9	4.8	4.9	4.8
19	4.4	4.4	4.4	4.4	4.4	4.4	4.4
20	5.0	4.9	4.9	4.9	4.9	4.9	4.9
IC323							
1	2.0	2.4	2.0	2.0	2.0	2.0	2.0
2	4.4	4.4	4.4	4.4	4.4	4.4	4.4
3	–	–	–	–	–	–	–
4	4.8	4.8	4.8	4.8	4.7	4.8	4.7
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	2.0	2.3	2.3	2.0	2.2	2.3	2.4
7	4.9	4.9	4.9	4.9	4.9	4.9	4.9
8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
IC341							
1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
2	–	–	–	–	–	–	–
3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	3.2	3.1	3.2	3.1	3.1	3.1	3.1
5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.1	5.1	5.1	5.1	5.1	5.1	5.1
8	6.0	5.9	6.0	5.9	6.0	5.9	6.0
IC351							
1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2	0.0	1.4	1.4	*1	*2	0.0	0.0
3	0.0	1.4	1.5	1.5	2.5	1.4	1.4
4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
5	4.9	5.0	5.0	5.0	4.9	4.9	5.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.0	5.0	5.0	5.0	5.0	5.0	5.0
8	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	5.0	0.0	0.0	0.0	5.0	0.0
11	5.0	0.0	5.0	5.0	5.0	0.0	5.0
12	5.0	5.0	5.0	5.0	5.0	5.0	5.1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	2.4	2.4	0.0	2.4	0.0	2.4
15	0.0	0.0	0.0	0.0	0.1	0.0	0.1
16	4.8	4.8	4.8	4.8	4.8	4.8	4.8
17	4.8	4.8	0.0	4.8	0.0	4.8	0.0
18	4.8	4.8	0.0	4.8	0.0	4.8	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	4.8	0.0	4.8	0.0	4.8
23	0.0	0.0	4.8	0.0	4.8	0.0	4.8
24	4.9	0.0	4.8	4.9	4.9	4.9	4.9
25	4.9	2.3	4.8	4.9	4.9	4.9	4.9
26	4.9	2.3	4.8	4.9	4.9	4.9	4.9
27	0.0	4.9	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	4.8	0.0	4.8
29	4.9	4.9	4.9	4.9	0.0	4.9	0.0
30	4.9	4.9	4.9	4.9	4.9	4.9	4.9
31	4.9	0.0	0.0	*3	*3	4.9	4.9
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	5.0	5.0	5.0	5.0	5.0	5.0	5.0
34	5.0	5.0	5.0	5.0	5.0	5.0	5.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	4.9	4.9	4.9	4.9	4.9	4.9
37	4.9	4.9	4.9	*4	*4	4.9	4.9
38	4.9	4.9	4.9	4.8	4.9	4.9	4.9
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	4.9	4.9	4.9	4.9	4.9	4.9	4.9
42	4.9	0.0	0.0	0.0	0.0	0.0	0.0
43	4.9	0.0	0.0	0.0	0.0	4.9	4.9
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	4.8	0.0	0.0	0.0	4.8	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	4.9	4.9	4.9	4.9	4.9	4.9	4.9
50	2.2	2.2	2.2	2.2	2.2	2.2	2.2
51	2.2	2.2	2.2	2.2	2.3	2.2	2.3
52	4.9	4.9	4.9	4.9	4.9	4.9	4.9
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	0.8	0.8	0.9	0.9	0.9	0.8	0.9
55	0.7	0.7	0.7	0.7	0.7	0.7	0.7
56	0.1	0.1	0.1	1.1	0.6	0.1	0.1
57	0.0	1.7	0.1	1.7	0.6	0.0	0.0
58	0.0	4.9	0.0	0.0	0.0	*5	0.0
59	4.9	4.9	4.9	4.9	4.9	4.9	4.9
60	4.9	4.9	0.0	4.9	0.0	4.9	0.0
61	4.2	4.4	4.9	4.9	4.9	4.2	4.9
62	4.7	4.7	4.7	4.7	4.7	4.7	4.7
63	4.9	0.0	0.0	4.9	4.9	0.0	4.9
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	4.9	4.9	4.9	4.9	4.8	4.9	4.9
66	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67	4.9	4.9	4.9	4.9	4.9	4.9	4.9
68	4.9	4.9	4.9	4.9	4.8	4.9	4.9
69	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70	4.9	4.9	4.9	4.9	4.9	4.9	4.9
71	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72	4.9	4.9	4.9	4.9	4.9	4.9	4.9
73	4.9	4.9	4.9	4.9	4.9	4.9	4.9
74	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75	4.9	4.9	4.9	4.9	4.9	4.9	4.9
76	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	4.2	4.9	0.7	4.9	0.7	4.9	0.8
79	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80	4.9	4.9	0.8	4.9	0.8	4.9	0.8
81	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82	4.3	3.9	4.0	3.9	4.0	4.0	4.3
83	5.0	5.0	5.0	5.0	5.0	5.0	5.0
84	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85	5.0	5.0	5.0	5.0	5.0	5.0	5.0
86	0.0	0.1	0.1	0.1	0.1	0.1	0.0
87	4.9	4.9	4.9	4.9	4.9	4.9	4.9
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	5.0	5.0	5.0	5.0	5.0	5.0	5.0
90	2.4	2.4	2.4	2.4	2.4	2.4	2.4
91	–	–	–	–	–	–	–
92	4.9	4.9	4.9	4.9	4.9	4.9	4.9
93	2.8	2.7	2.8	2.8	2.8	2.8	2.8
94	2.2	2.2	2.2	2.2	2.2	2.2	2.2
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	1.0	0.4	0.0	0.0
99	0.0	*6	0.0	1.0	0.4	0.0	0.0
100	0.8	0.8	0.8	0.8	0.8	0.8	0.8
101	4.8	4.8	4.8	4.8	4.8	4.8	4.8
102	4.9	4.9	4.8	4.9	4.8	4.9	4.8
103	4.9	4.9	4.8	4.9	4.8	4.9	4.8
104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106	2.4	2.4	2.4	2.4	2.4	2.4	2.4
107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	3.1	2.9	2.4	2.9	2.4	2.9	2.4
109	3.1	2.9	2.4	2.9	2.4	3.0	2.4
110	2.3	2.3	2.4	2.3	2.4	2.3	2.4

*1 3.9/3.5 *2 1.2/2.3 *3 4.9/0.0 *4 0.0/4.9 *5 0.1/4.9 *6 0.2/1.8

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FFWD	PAUSE REC	PAUSE PLAY
111	2.3	2.3	2.4	2.3	2.4	2.3	2.4
112	4.9	4.8	2.4	4.9	2.4	4.9	2.4
113	4.9	4.8	2.4	4.9	2.4	4.9	2.4
114	–	–	–	–	–	–	–
115	2.4	2.5	2.4	2.5	2.4	2.4	2.4
116	2.4	2.4	2.4	2.4	2.4	2.4	2.4
117	2.4	2.4	2.4	2.4	2.4	2.4	2.4
118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119	4.9	4.9	4.8	4.9	4.8	4.9	4.8
120	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121	0.0	2.4	2.4	2.4	2.4	2.4	2.4
122	0.0	2.5	2.5	2.4	2.4	0.0	0.0
123	4.8	4.8	4.8	4.8	4.7	4.8	4.7
124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126	4.9	4.9	4.9	4.9	4.9	4.9	4.9
127	0.1	0.2	0.2	0.2	0.1	0.1	0.1
128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC352							
1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3	1.1	1.0	1.0	1.1	1.0	1.1	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
IC353							
1	4.2	4.1	0.0	4.2	0.0	4.1	0.0
2	3.5	3.8	4.4	3.7	4.4	3.8	4.4
3	4.9	4.9	0.0	4.9	0.0	4.9	0.0
4	4.9	4.9	0.0	4.9	0.0	4.9	0.0
5	0.7	0.7	0.0	0.7	0.0	0.7	0.0
6	4.1	4.0	4.9	4.1	4.9	4.0	4.9
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.7	0.7	0.0	0.7	0.0	0.7	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4.3	4.2	0.04	4.3	0.0	4.2	0.0
12	0.7	0.7	0.0	0.7	0.0	0.7	0.0
13	0.7	0.7	0.0	0.7	0.0	0.7	0.0
14	4.9	4.9	4.9	4.9	4.9	4.9	4.9
IC361							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.5	0.7	0.8	*1	*2	0.4	0.4
4	0.1	1.5	1.6	*3	*4	0.1	0.1
5	5.9	5.9	6.0	5.9	6.0	5.9	6.0
6	5.0	4.9	5.0	5.0	5.0	5.0	5.0
7	4.9	4.9	4.9	4.9	4.9	4.9	4.9

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FFWD	PAUSE REC	PAUSE PLAY
8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
9	–	–	–	–	–	–	–
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5
11	2.5	2.5	2.5	2.5	2.5	2.5	2.5
12	2.5	2.5	2.5	2.5	2.5	2.5	2.5
13	0.0	2.5	2.5	2.4	2.4	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.9	0.0	0.0	*5	*5	4.9	4.9
19	–	–	–	–	–	–	–
20	1.5	1.5	1.5	1.5	1.5	1.5	1.5
21	1.5	1.5	1.5	1.5	1.5	1.5	1.5
22	1.8	1.9	1.9	1.9	1.9	1.9	1.9
23	1.9	1.9	1.9	1.9	1.9	1.9	1.9
24	2.4	2.3	2.4	2.4	2.4	2.3	2.4
25	2.4	2.3	2.4	2.4	2.4	2.4	2.4
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.1	0.8	0.8	*1	*2	0.1	0.1
28	0.1	0.8	0.8	*1	*2	0.1	0.1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC371							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	–	–	–	–	–	–	–
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
IC375							
1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2	–	–	–	–	–	–	–
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4.8	4.7	4.7	4.8	4.7	4.8	4.7
5	–	–	–	–	–	–	–
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	–	–	–	–	–	–	–
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
9	4.6	4.5	4.5	4.5	4.5	4.5	4.5
10	0.4	0.4	0.4	0.5	0.4	0.4	0.4
11	4.1	4.0	4.0	4.0	4.0	4.0	4.0
12	0.3	0.4	0.4	0.4	0.4	0.4	0.4
13	–	–	–	–	–	–	–
14	5.5	5.5	5.5	5.5	5.5	5.5	5.5
IC376							
1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
2	4.9	4.9	4.9	4.9	4.9	4.9	4.9

MODE / PIN NO.	STOP	REC	PLAY	FFWD / REW	SERCH REV/FFWD	PAUSE REC	PAUSE PLAY
3	3.5	3.8	4.4	3.7	4.4	3.9	4.4
4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
5	–	–	–	–	–	–	–
6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
7	–	–	–	–	–	–	–
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
9	4.8	4.7	4.7	4.8	4.7	4.8	4.7
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	–	–	–	–	–	–	–
14	0.5	0.5	0.5	0.5	0.5	0.5	0.5
15	0.8	0.8	0.8	0.8	0.8	0.8	0.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	–	–	–	–	–	–	–
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.4	0.4	0.4	0.4	0.4	0.4	0.4
24	4.8	4.7	4.7	4.8	4.7	4.8	4.7
IC381							
1	0.0	0.9	0.9	0.9	0.9	0.8	0.9
2	0.0	0.8	0.9	0.9	0.9	0.9	0.8
3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
4	0.0	0.1	0.1	0.1	0.1	0.1	0.1
5	0.0	1.7	1.7	1.7	1.7	1.7	1.7
6	5.9	5.9	6.0	5.9	5.9	5.9	6.0
7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
8	2.2	2.2	2.2	2.2	2.2	2.2	2.2
9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	2.2	2.2	2.2	2.2	2.2	2.2	2.2
12	0.0	0.3	0.3	0.3	0.3	0.3	0.3
13	1.8	1.8	1.8	1.8	1.8	1.8	1.8
14	5.0	4.9	5.0	5.0	5.0	5.0	5.0
15	2.2	2.2	2.2	2.2	2.2	2.2	2.2
16	1.9	1.6	1.6	1.6	1.6	1.6	1.6
17	0.0	0.1	0.1	0.1	0.1	0.1	0.1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	2.2	2.2	2.2	2.2	2.2	2.2	2.2
20	2.2	2.2	2.2	2.3	2.2	2.2	2.2
21	–	–	–	–	–	–	–
22	0.0	2.4	2.4	2.4	2.4	2.4	2.4
23	4.9	3.8	3.8	3.8	3.8	3.8	3.8
24	4.3	3.3	3.3	3.3	3.3	3.3	3.3
25	–	–	–	–	–	–	–
26	–	–	–	–	–	–	–
27	–	–	–	–	–	–	–

*1 2.4/2.3 *2 1.4/1.5 *3 4.7/4.5 *4 2.8/2.9 *5 4.9/0.0 *6 0.1 – 3.7 *7 0.0 – 4.8 *8 4.8 – 4.4

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	REV/F.FWD SERCH	PAUSE REC	PAUSE PLAY
28	–	–	–	–	–	–	–
29	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30	0.0	0.9	0.9	0.9	0.9	0.9	0.9
31	0.0	0.9	0.9	0.9	0.9	0.9	0.9
32	0.1	0.9	0.9	0.9	0.9	0.9	0.9
33	0.1	0.9	0.9	0.9	0.9	0.9	0.9
34	0.1	0.9	0.9	0.9	0.9	0.9	0.9
35	0.0	0.1	0.1	0.1	0.1	0.1	0.1
36	0.0	0.9	0.9	0.9	0.9	0.9	0.9
IC391							
1	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2	3.9	3.8	3.9	3.9	3.8	3.9	3.9
3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.0	5.0	5.0	5.0	5.0	5.0	5.0
7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
9	2.2	2.3	2.2	2.3	2.3	2.2	2.2
10	5.7	5.6	5.7	5.6	5.7	5.7	5.7
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.4	0.3	0.3	0.8	0.2	0.5	0.4
15	5.0	5.0	5.0	5.0	5.0	5.0	5.0
16	0.4	0.3	0.4	0.8	0.1	0.6	0.5
17	5.0	5.0	5.0	5.0	5.0	5.0	5.0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	–	–	–	–	–	–	–
Q3201							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Q3202							
E	4.8	4.8	4.8	4.8	4.7	4.8	4.7
C	4.9	4.9	4.9	4.9	4.8	4.9	4.8
B	2.4	2.4	2.4	2.4	0.0	2.4	0.0
Q3301							
1	4.3	4.3	4.3	3.3	3.8	4.3	4.3
2	3.7	2.4	3.6	2.4	3.2	3.6	3.6
3	0.0	1.7	1.7	1.7	0.6	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.1	0.1	0.1	1.2	0.6	0.1	0.1
Q3351							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3.7	0.1	3.7	3.7	3.7	*6	3.7
B	0.0	4.9	0.0	0.0	0.0	*7	0.0
Q3352							
E	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	REV/F.FWD SERCH	PAUSE REC	PAUSE PLAY
C	5.1	5.1	5.1	5.1	5.1	5.1	5.1
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3353							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Q3354							
E	6.3	6.3	6.4	6.2	6.4	6.3	6.4
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	6.3	6.3	6.4	6.2	6.4	6.3	6.4
Q3355							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3356							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6.3	6.3	6.4	6.2	6.4	6.3	6.4
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3501							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Q3502							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.9	5.0	0.1	4.9	0.1	4.9	0.1
B	0.0	0.0	4.8	0.0	4.8	0.0	4.8
Q3503							
1	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2	4.9	0.0	0.0	0.0	0.0	4.9	4.9
3	0.0	1.6	1.6	*8	*4	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	1.7	1.7	1.8	1.7	1.7	1.7
Q3571							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	5.0	5.0	5.0	5.0	5.0	5.0	5.0
B	2.4	2.4	2.3	2.4	2.3	2.4	2.3
Q3701							
S	1.4	0.0	0.0	0.0	0.0	0.0	0.0
D	1.4	0.0	0.0	1.6	0.0	0.0	0.0
G	1.4	0.0	0.0	1.6	0.0	0.0	0.0
Q3802							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.3	3.3	3.3	3.3	3.3	3.3	3.3
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q3901							
E	6.0	6.0	6.0	6.0	6.0	6.0	6.0
C	5.0	5.0	5.0	5.0	5.0	5.0	5.0
B	5.7	5.6	5.7	5.6	5.7	5.7	5.7

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	REV/F.FWD SERCH	PAUSE REC	PAUSE PLAY

*4 2.8／2.9 *6 0.1 – 3.7 *7 0.0 – 4.8 *8 4.8 – 4.4

7-3. VIDEO CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	F.FWD / REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
IC101							
1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2	2.2	2.2	2.1	2.2	2.1	2.2	2.1
3	2.2	2.2	2.1	2.2	2.1	2.2	2.1
4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7	0.5	0.5	1.8	0.5	1.8	0.5	1.8
8	1.8	1.8	0.0	1.8	0.0	1.8	0.0
9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
10	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13	2.2	2.2	2.3	2.2	2.3	2.2	2.3
14	1.4	1.4	1.7	1.4	1.7	1.4	1.7
15	3.2	3.2	3.1	3.2	3.1	3.2	3.1
16	2.1	2.1	2.9	2.1	2.9	2.1	2.9
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.4	1.4	3.0	1.4	3.0	1.4	3.0
19	2.3	2.3	2.1	2.3	2.1	2.3	2.1
20	1.2	1.2	2.8	1.2	2.8	1.2	2.8
21	2.3	2.3	2.1	2.3	2.1	2.3	2.1
22	2.1	2.1	2.8	2.1	2.8	2.1	2.8
23	2.6	2.6	2.7	2.6	2.7	2.6	2.7
24	0.2	0.2	0.2	0.2	0.1	0.2	0.1
25	4.7	4.7	4.6	4.7	4.6	4.7	4.6
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	2.5	2.5	2.5	2.5	2.5	2.5
28	2.3	2.3	2.4	2.3	2.4	2.3	2.4
29	2.2	2.2	4.1	2.2	4.1	2.2	4.1
30	2.2	2.2	2.2	2.2	2.2	2.2	2.2
31	1.8	1.8	1.8	1.8	1.8	1.8	1.8
32	1.9	1.9	1.9	1.9	1.9	1.9	1.9
33	2.3	2.3	2.3	2.3	2.3	2.3	2.3
34	2.1	2.1	2.1	2.1	2.1	2.1	2.1
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	2.3	2.3	2.3	2.3	2.4	2.3	2.4
37	2.0	2.0	1.9	2.0	2.0	2.0	2.0
38	4.8	4.8	4.8	4.8	4.8	4.8	4.8
39	2.0	2.2	0.0	2.0	0.0	2.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	1.7	0.0	1.7	0.0	1.7
42	4.0	4.0	4.0	4.0	4.0	4.0	4.0
43	3.0	3.0	3.0	3.0	3.0	3.0	3.0
44	3.2	3.2	3.2	3.2	3.2	3.2	3.2
45	0.3	0.3	3.0	0.3	3.0	0.3	3.0
46	0.0	0.7	0.7	0.0	0.7	0.0	0.7
47	4.6	4.6	4.5	4.6	4.5	4.6	4.5
48	4.4	4.2	4.2	4.1	4.3	4.4	4.4
49	4.7	4.7	4.7	4.7	4.7	4.7	4.7
50	0.0	0.0	0.0	0.0	0.3	0.0	0.3
51	2.2	2.2	2.2	2.2	2.2	2.2	2.2
52	2.2	2.2	0.0	2.2	0.0	2.2	0.0
53	2.6	2.6	2.6	2.6	2.6	2.6	2.6
54	2.3	2.3	2.3	2.3	2.3	2.3	2.3
55	1.8	1.8	1.8	1.8	1.8	1.8	1.8
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	1.9	1.9	2.0	1.9	2.0	1.9	2.0
58	4.1	4.1	4.1	4.1	4.1	4.1	4.1
59	3.0	3.0	2.9	3.0	2.9	3.0	2.9
60	0.1	0.1	0.1	0.1	0.1	0.1	0.1
61	2.2	2.2	2.1	2.2	2.1	2.2	2.1
62	2.0	2.0	2.0	2.0	2.0	2.0	2.0
63	1.9	1.9	1.9	1.9	1.9	1.9	1.9
64	2.0	2.0	2.0	2.0	2.0	2.0	2.0
IC111							
1	0.3	0.4	1.9	0.3	1.9	0.3	1.9
2	0.4	0.5	2.4	0.4	2.4	0.4	2.4
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.5	0.5	2.1	0.5	2.1	0.5	2.1
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.5	0.5	2.1	0.5	2.1	0.5	2.1
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.8	0.9	4.9	0.8	4.9	0.8	4.9
10	0.4	0.5	2.4	0.4	2.4	0.4	2.4
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.8	0.9	1.9	0.8	1.9	0.8	1.9
13	0.8	0.9	1.9	0.8	1.9	0.8	1.9
14	0.8	0.9	4.9	0.8	4.9	0.8	4.9
15	0.0	0.0	0.9	0.0	0.9	0.0	0.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC191							
1	0.0	0.0	4.6	0.0	4.6	4.7	4.6
2	3.1	3.1	0.0	3.1	0.0	0.0	0.0
3	4.1	4.1	4.1	4.1	4.1	4.1	4.1
4	3.1	3.1	0.0	3.1	0.0	0.0	0.0
5	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6	2.1	3.1	0.0	3.1	0.0	0.0	0.0
7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
8	2.0	2.0	1.7	2.0	1.7	1.7	1.7
9	4.8	4.8	4.1	4.8	4.2	4.8	4.2
10	3.6	3.6	2.4	3.6	2.4	2.4	2.4
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.4	2.4	2.4	2.4	2.4	2.4	2.4
13	0.0	0.0	0.0	0.0	0.1	3.1	0.0
14	2.4	2.4	2.4	2.4	2.4	2.4	2.4
15	1.7	1.6	2.5	1.7	2.5	2.4	2.5
16	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17	4.8	4.8	4.8	4.8	4.8	4.8	4.8
18	2.6	2.6	2.4	2.6	2.4	2.4	2.4
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.9	2.0	1.7	1.9	1.7	2.4	1.7
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3.8	3.8	3.8	3.8	3.8	3.8	3.8
24	2.4	2.4	2.4	2.4	2.4	2.4	2.4
25	1.7	1.7	1.7	1.7	1.7	1.7	1.7
26	0.0	0.0	2.4	0.0	2.4	2.4	2.4
27	4.9	4.9	4.8	4.9	4.8	4.8	4.8
28	4.9	4.9	4.9	4.9	4.9	4.9	4.9
29	2.3	2.3	2.2	2.3	2.2	2.2	2.2
30	4.1	4.1	2.2	4.1	2.2	2.2	2.2
31	4.1	4.1	2.1	4.1	2.1	2.1	2.1
32	2.3	2.3	2.1	2.3	2.1	2.1	2.1
33	4.9	4.9	4.9	4.9	4.9	4.9	4.9
34	4.9	4.9	4.8	4.9	4.8	4.8	4.8
35	0.0	0.0	2.4	0.0	2.4	2.4	2.4
36	1.7	1.7	1.7	1.7	1.7	1.7	1.7
37	2.4	2.4	2.4	2.4	2.4	2.4	2.4
38	3.8	3.8	3.8	3.8	3.8	3.8	3.8
39	4.0	2.0	2.0	4.0	2.0	4.0	2.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	3.9	1.8	3.9	3.9	3.9	3.9	3.9
46	2.5	2.5	2.4	2.5	2.4	2.4	2.4
47	3.9	1.8	3.9	3.9	3.9	3.9	3.9
48	3.1	3.1	0.1	3.1	0.1	0.1	0.1
Q0701							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Q0702							
E	0.0	0.0	0.5	0.0	0.5	0.0	0.5
C	4.8	4.8	3.5	4.8	3.5	4.8	3.5
B	0.0	0.0	1.1	0.0	1.1	0.0	1.1
Q0703							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	0.5	0.5	1.8	0.5	1.8	0.5	1.8
Q0704							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1
C	4.8	4.8	3.7	4.8	3.7	4.8	3.7
B	0.5	0.5	1.8	0.5	1.8	0.5	1.8
Q0705							
E	4.1	4.1	2.8	4.1	2.8	4.1	2.8
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8

MODE / PIN NO.	STOP	REC	PLAY	FFWD REW/	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
B	4.8	4.8	3.5	4.8	3.5	4.8	3.5
Q0706							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Q0707							
E	2.1	2.1	2.1	2.1	2.1	2.1	2.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Q0708							
E	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	0.1	0.4	0.0	0.1	0.0	0.4	0.0
B	0.7	0.7	4.8	0.7	4.8	0.7	4.8
Q0709							
E	3.3	3.3	3.3	3.3	3.3	3.3	3.3
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Q0710							
E	4.0	4.0	4.0	4.0	4.0	4.0	4.0
C	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Q0711							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	3.3	3.3	3.3	3.3	3.3	3.3	3.3
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Q0712							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	3.4	3.4	3.4	3.4	3.4	3.4	3.4
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Q0713							
E	0.0	0.0	1.1	0.0	1.1	0.0	1.1
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	0.7	0.7	1.8	0.7	1.8	0.7	1.8
Q0714							
E	0.7	0.7	1.8	0.7	1.8	0.7	1.8
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	1.1	0.0	1.1	0.0	1.1
Q0717							
E	0.7	0.7	1.0	0.7	1.0	0.7	1.0
C	4.1	4.1	3.8	4.1	3.8	4.1	4.1
B	1.4	1.4	1.7	1.4	1.7	1.4	1.7
Q0718							
E	1.4	1.4	1.7	1.4	1.7	1.4	1.7
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.7	0.7	1.0	0.7	1.0	0.7	1.0
Q1001							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	4.7	0.0	4.7
Q1002							
E	0.0	0.0	0.2	0.0	0.0	0.0	0.0
C	4.6	4.6	4.8	4.6	3.9	4.6	3.9
B	0.0	0.0	0.1	0.0	0.4	0.0	0.4
Q1003							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	2.0	2.0	1.9	2.0	2.0	2.0	2.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1004							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1007							
E	1.4	1.4	1.4	1.4	1.4	1.4	1.4
C	3.7	3.7	3.7	3.7	3.7	3.7	3.7
B	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Q1008							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.3	0.0	0.3
B	4.8	4.8	0.0	4.8	0.0	4.8	0.0
Q1009							
E	1.6	1.6	2.4	1.6	2.4	1.6	2.4
C	4.8	4.9	4.8	4.8	4.8	4.9	4.8
B	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Q1011							
E	0.7	0.7	4.8	0.7	4.8	0.7	4.8
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.7	0.7	4.8	0.7	4.8	0.7	4.8
Q1012							
E	0.0	0.0	0.3	0.0	0.0	0.0	0.0
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	0.3	0.0	0.3	0.0	0.3
Q1014							
E	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Q1015							
E	2.2	2.2	4.1	2.2	4.1	2.2	4.1
C	0.0	0.0	4.8	0.0	4.8	0.0	4.8
B	0.0	0.0	4.8	0.0	4.8	0.0	4.8
Q1016							
E	1.4	1.4	3.0	1.4	3.0	1.4	3.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Q1101							
E	0.0	0.0	0.9	0.0	0.9	0.0	0.9
C	0.8	0.9	4.7	0.8	4.7	0.8	4.7
B	0.2	0.2	1.5	0.2	1.6	0.2	1.6
Q1102							
E	0.2	0.3	2.1	0.2	2.2	0.2	2.2
C	0.8	0.9	4.7	0.8	4.7	0.8	4.7
B	0.8	0.9	2.8	0.8	2.8	0.8	2.8
Q1103							
E	0.0	0.0	1.3	0.0	1.3	0.0	1.3
C	0.8	0.9	2.8	0.8	2.9	0.8	2.9
B	0.6	0.7	2.0	0.6	2.0	0.6	2.0
Q1104							
E	0.0	0.0	1.5	0.0	1.5	0.0	1.5
C	0.8	0.9	3.0	0.8	3.0	0.8	3.0
B	0.6	0.7	2.1	0.6	2.1	0.6	2.1
Q1105							
E	0.2	0.3	2.3	0.2	2.4	0.2	2.3
C	0.8	0.9	4.8	0.8	4.7	0.8	4.8
B	0.8	0.9	2.9	0.8	3.0	0.8	3.0
Q1106							
E	0.0	0.0	1.4	0.0	1.4	0.0	1.4
C	0.8	0.9	3.6	0.8	3.6	0.8	3.6
B	0.2	0.3	2.0	0.2	2.1	0.2	2.1
Q1107							
E	0.0	0.0	0.8	0.0	0.8	0.0	0.8
C	0.8	0.9	4.8	0.8	4.7	0.8	4.8
B	0.0	0.0	1.4	0.0	1.5	0.0	1.5
Q1301							
E	0.0	0.0	1.6	0.0	1.6	0.0	1.6
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	2.3	0.0	2.3	0.0	2.3
Q1302							
E	0.0	0.0	2.3	0.0	2.3	0.0	2.3
C	0.7	0.8	4.8	0.7	4.8	0.7	4.8
B	3.2	3.1	3.0	3.2	3.0	3.1	3.0
Q1303							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	2.2	0.0	0.0	0.0	0.0	0.0
B	4.8	0.0	4.8	4.8	4.8	4.8	4.8
Q1306							
E	0.0	1.5	0.0	0.0	0.0	0.0	0.0
C	4.8	3.5	4.8	4.8	4.8	4.8	4.8
B	0.0	2.2	0.0	0.0	0.0	0.0	0.0
Q1307							
E	0.0	0.8	0.0	0.0	0.0	0.0	0.0
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Q1309							
E	0.7	0.7	4.8	0.7	4.8	0.7	4.8
C	0.0	0.0	0.0	0.0	1.4	0.0	0.7
B	4.6	4.6	4.8	4.6	3.9	4.6	4.2
Q1310							
E	0.0	0.0	1.9	0.0	1.9	0.0	1.9
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.4	0.4	2.5	0.4	2.5	0.4	2.5
Q1311							

MODE / PIN NO.	STOP	REC	PLAY	F.FWD/REW	SERCH REV/FWD	PAUSE REC	PAUSE PLAY
Q1311							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.6	3.7	3.7	3.6	3.7	3.7	3.7
Q1312							
E	0.7	0.7	4.8	0.7	4.8	0.7	4.8
C	0.7	0.7	0.7	0.7	4.8	0.7	4.8
B	4.6	4.6	4.8	4.6	3.9	4.6	3.9
Q1313							
E	0.0	0.0	1.8	0.0	1.8	0.0	1.8
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.4	0.4	2.4	0.3	2.4	0.4	2.4
Q1316							
E	3.4	3.4	3.4	3.4	3.4	3.4	3.4
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Q1318							
E	2.7	2.7	2.7	2.7	2.7	2.7	2.7
C	4.8	4.8	4.8	4.8	4.8	4.8	4.8
B	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Q1319							
E	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C	3.4	3.4	3.4	3.4	3.4	3.4	3.4
B	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Q1320							
E	3.2	3.1	3.0	3.2	3.0	3.1	3.0
C	0.0.	0.0	0.0	0.0	0.0	0.0	0.0
B	2.6	2.5	2.5	2.6	2.5	2.5	2.5
Q1324							
E	0.0	0.0	1.9	0.0	1.9	0.0	1.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	1.2	0.0	1.2	0.0	1.2
Q1328							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.8	0.0	4.8	4.8	4.8	4.8	4.8
B	0.0	4.9	0.0	0.0	0.0	0.0	0.0
Q1403							
E	3.0	3.3	3.0	3.0	3.3	3.3	3.3
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.4	2.7	2.7	2.4	2.7	2.7	2.7
Q1404							
E	1.5	1.9	1.9	1.5	1.9	1.9	1.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.9	1.3	1.3	0.9	1.3	1.3	1.3
Q1405							
E	1.5	1.9	0.0	1.5	0.0	1.9	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1406							
E	2.1	2.5	2.5	2.1	2.5	2.5	2.5
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	1.5	1.9	0.0	1.5	0.0	1.9	0.0
Q1407							
E	2.1	2.5	2.5	2.1	2.5	2.5	2.5
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Q1409							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	4.7	4.7	4.2	4.7	4.2	4.7	4.2
Q1412							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.9	4.9	4.9	4.9	0.0	4.9	0.0
B	0.0	0.0	0.0	0.0	3.4	0.0	3.4
Q1413							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	3.6	3.7	0.0	3.6	0.0	3.7	0.0
Q1414							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	4.9	0.0	0.0	0.0	0.0	0.0
Q1415							
E	0.0	4.2	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	4.9	0.0	0.0	0.0	0.0	0.0
Q1422							
E	4.9	4.9	4.9	4.9	4.9	4.9	4.9
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Q1465							
E	0.5	0.5	0.5	0.5	0.5	0.5	0.5
C	4.9	4.9	4.9	4.9	4.9	4.9	4.9
B	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Q1466							
E	1.1	1.1	1.1	1.1	1.1	1.1	1.1
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Q1602							
E	0.8	0.8	4.8	0.7	4.8	0.7	4.8
C	0.2	0.3	4.8	0.2	1.8	0.2	1.8
B	0.0	0.0	0.0	0.0	4.8	0.0	4.8
Q1603							
E	0.0	0.0	3.0	0.0	3.0	0.0	3.0
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	3.6	0.0	3.6	0.0	3.6
Q1604							
E	0.0	0.0	1.5	0.0	1.4	0.0	1.4
C	0.7	0.7	4.8	0.7	4.8	0.7	4.8
B	0.0	0.0	2.1	0.0	2.1	0.0	2.1
Q1605							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.3	0.3	0.5	0.3	0.3	0.3	0.4
B	0.0	0.0	0.0	0.0	0.2	0.0	0.1
Q1606							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Q1801							
E	4.9	4.2	4.9	4.9	4.9	4.9	4.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.9	3.8	4.9	4.9	4.9	4.9	4.9
Q1802							
E	4.9	2.8	4.9	4.9	4.9	4.9	4.9
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	4.8	3.1	4.8	4.8	4.8	4.8	4.8
Q1901							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4.8	1.3	1.3	4.8	1.3	1.3	1.3
B	0.0	1.3	1.3	0.0	1.3	1.3	1.3
Q1902							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1.7	1.6	2.5	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0	4.8	0.0	4.8
D1001							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1301							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1401							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D1427	**VM-EX22P, VM-EX25R Only**						
1	0.0	3.5	0.0	0.0	0.0	3.5	0.0
2	0.0	3.6	0.0	0.0	0.0	3.6	0.0
3	0.0	0.6	0.0	0.0	0.0	0.6	0.0
D1430							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
D1431							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
3	3.1	3.1	3.1	3.1	3.1	3.1	3.1
D1432							
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MODE / PIN NO.	STOP	REC	PLAY	F-FWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4.9	4.9	4.9	4.9	4.9	4.9	4.9

7-4. AUDIO CIRCUIT

MODE / PIN NO.	STOP	REC	PLAY	F-FWD / REW	SERCH REV / FWD	PAUSE REC	PAUSE PLAY
IC201							
1	0.6	3.2	3.2	0.6	3.2	3.2	3.2
2	0.0	0.0	0.8	0.0	0.8	0.0	1.3
3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4	2.5	2.5	1.6	2.5	1.6	2.5	1.6
5	0.7	0.7	4.9	0.7	4.9	0.7	4.9
6	2.1	2.1	2.2	2.1	2.2	2.1	2.2
7	5.0	5.0	4.9	5.0	4.9	5.0	4.9
8	1.9	1.9	1.3	1.9	1.3	1.9	1.3
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	1.3	1.4	0.0	1.4	1.3	1.4
11	0.0	0.0	0.0	0.0	0.0	0.0	3.5
12	0.0	0.0	2.2	0.0	2.2	0.0	2.2
13	4.9	4.9	4.9	4.9	4.9	4.9	4.9
14	2.1	2.1	2.1	2.1	2.1	2.1	2.1
15	2.1	2.1	2.1	2.1	2.1	2.1	2.1
16	2.1	2.1	2.1	2.1	2.1	2.1	2.1
17	4.9	4.9	4.9	4.9	4.9	4.9	4.9
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	2.4	2.4	2.3	2.4	2.3	2.4	2.3
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5.0	5.0	4.9	5.0	4.9	5.0	4.9
23	2.1	2.1	2.1	2.1	2.1	2.1	2.1
24	2.1	2.1	2.1	2.1	2.1	2.1	2.1
25	2.1	2.1	2.1	2.1	2.1	2.1	2.1
26	2.1	2.1	2.1	2.1	2.1	2.1	2.1
27	2.7	2.7	2.7	2.7	2.7	2.7	2.7
28	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29	2.8	2.8	2.8	2.8	2.8	2.8	2.8
30	5.0	5.0	4.9	5.0	4.9	5.0	4.9
31	2.1	2.1	2.1	2.1	2.1	2.1	2.1
32	2.1	2.1	2.1	2.1	2.1	2.1	2.1
33	2.1	2.3	2.1	2.1	2.1	2.3	2.1
34	2.1	0.0	0.0	2.1	2.1	0.0	2.1
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	2.1	2.1	2.1	2.1	2.1	2.1	2.1
37	4.0	4.0	4.0	4.0	4.0	4.0	4.0
38	2.1	2.1	2.1	2.1	2.1	2.1	2.1
39	2.1	2.1	2.0	2.1	2.0	2.1	2.0
40	1.7	1.7	1.6	1.7	1.6	1.7	1.6
41	4.2	4.2	4.2	4.2	4.2	4.2	4.2
42	4.9	4.9	4.9	4.9	4.9	4.9	4.9
43	3.9	3.9	3.9	3.9	3.9	3.9	3.9
44	2.1	2.1	2.1	2.1	2.1	2.1	2.1
45	3.2	3.2	3.2	3.2	3.2	3.2	3.2
46	2.3	2.3	2.9	2.3	2.9	2.3	2.9
47	1.9	0.0	0.0	1.9	0.0	0.0	0.0
48	0.0	0.0	1.2	0.0	0.5	0.0	0.5
Q2030							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	1.2	0.0	1.5	0.0	1.5
B	0.0	1.3	1.4	0.0	1.4	1.3	1.4
Q2031							
E	5.0	5.0	4.9	5.0	4.9	5.0	4.9
C	0.0	0.0	1.2	0.0	0.5	0.0	0.5
B	0.0	1.3	1.4	0.0	1.4	1.3	1.4
Q2501							
E	2.1	2.1	2.1	2.1	2.1	2.1	2.1
C	2.4	2.4	2.3	2.4	2.3	2.4	2.3
B	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Q2901							
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1.3	1.3	1.3	1.3	1.3	1.3	1.3
B	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Q2902							
E	0.7	0.7	0.7	0.7	0.7	0.7	0.7
C	1.9	1.9	1.9	1.9	1.9	1.9	1.9
B	1.3	1.3	1.3	1.3	1.3	1.3	1.3

7-5. VIEWFINDER CIRCUIT

MODE / PIN NO.	VIEWFINDER		
	CAMERA ON	OPEN	MONOSCOPE TAPE PLAYBACK
IC971			
1	2.3	2.4	2.3
2	5.0	5.0	5.0
3	2.2	2.1	2.2
4	0.0	0.0	0.0
5	2.3	2.4	2.3
6	1.4	1.4	1.4
7	2.2	2.1	2.2
8	4.7	4.7	4.7
9	4.3	4.3	4.3
10	0.0	0.0	0.0
11	2.0	1.8	2.3
12	4.7	4.7	4.7
13	3.1	3.4	2.4
14	2.2	1.9	2.2
15	1.9	1.9	1.9
16	2.3	2.3	2.3
FBT			
1	24	22	27
2	24	22	27
3	4.9	4.9	4.9
4	4.8	4.8	4.8
5	4.8	4.8	4.8
6	0.0	0.0	0.0
7	–	–	–
8	– 37	– 38	– 35
Q9701			
B	0.5	0.5	0.5
C	4.8	4.8	4.8
E	0.0	0.0	0.0
Q9702			
B	3.1	3.4	2.4
C	– 30	– 33	– 25
E	3.7	3.9	2.9

8. TROUBLESHOOTING GUIDE

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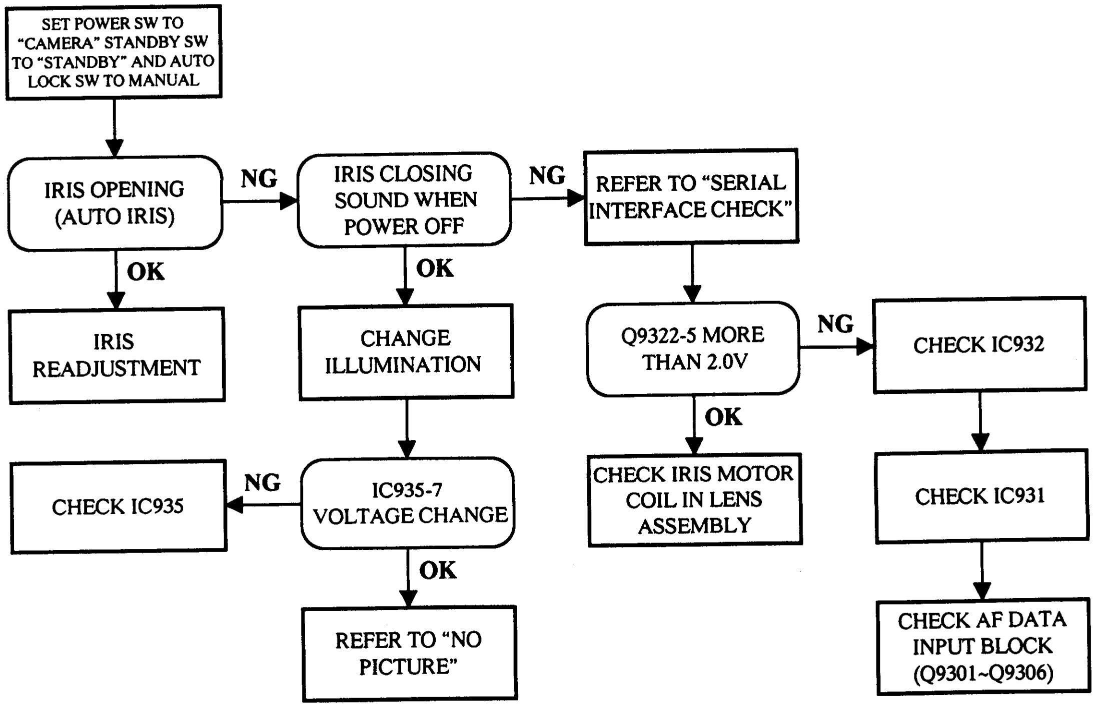
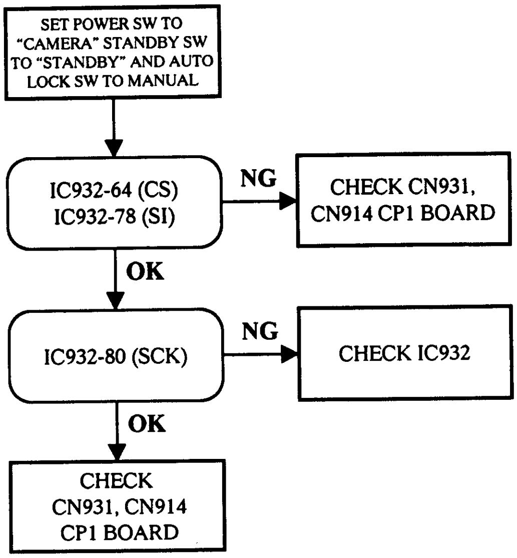
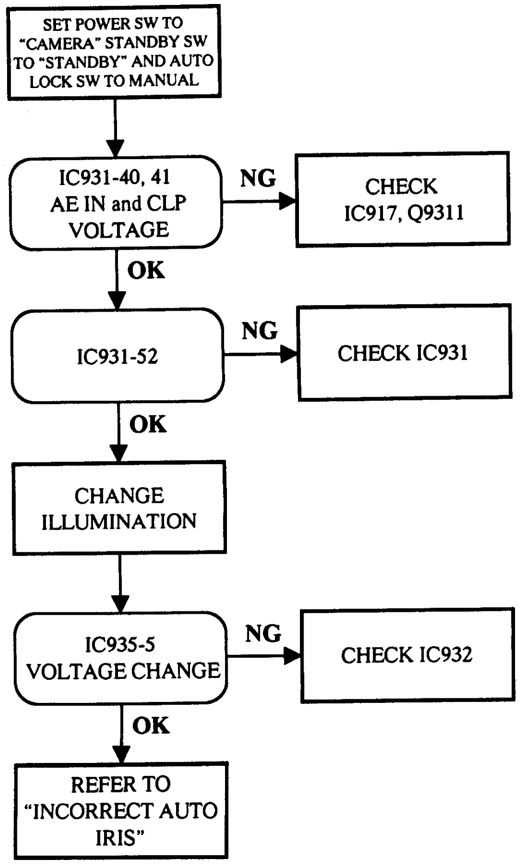
INCORRECT AUTO IRIS


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IRIS OPENING (AUTO IRIS)
NG
IRIS CLOSING SOUND WHEN POWER OFF
NG
REFER TO "SERIAL INTERFACE CHECK"
OK
IRIS READJUSTMENT
OK
CHANGE ILLUMINATION
Q9322-5 MORE THAN 2.0V
NG
CHECK IC932
OK
CHECK IRIS MOTOR COIL IN LENS ASSEMBLY
CHECK IC935
NG
IC935-7 VOLTAGE CHANGE
OK
REFER TO "NO PICTURE"
CHECK IC931
CHECK AF DATA INPUT BLOCK (Q9301~Q9306)

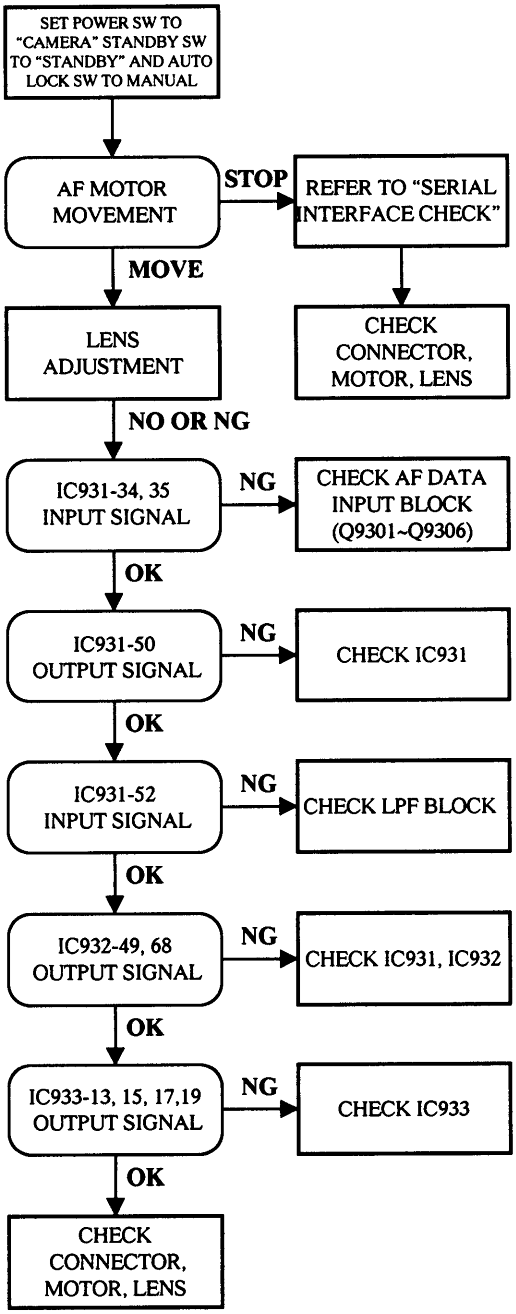
NO AF / MF CHANGE AND POWER ZOOM INOPERATIVE (SERIAL INTERFACE CHECK)


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IC932-64 (CS)
IC932-78 (SI)
NG
CHECK CN931, CN914 CP1 BOARD
OK
IC932-80 (SCK)
NG
CHECK IC932
OK
CHECK CN931, CN914 CP1 BOARD

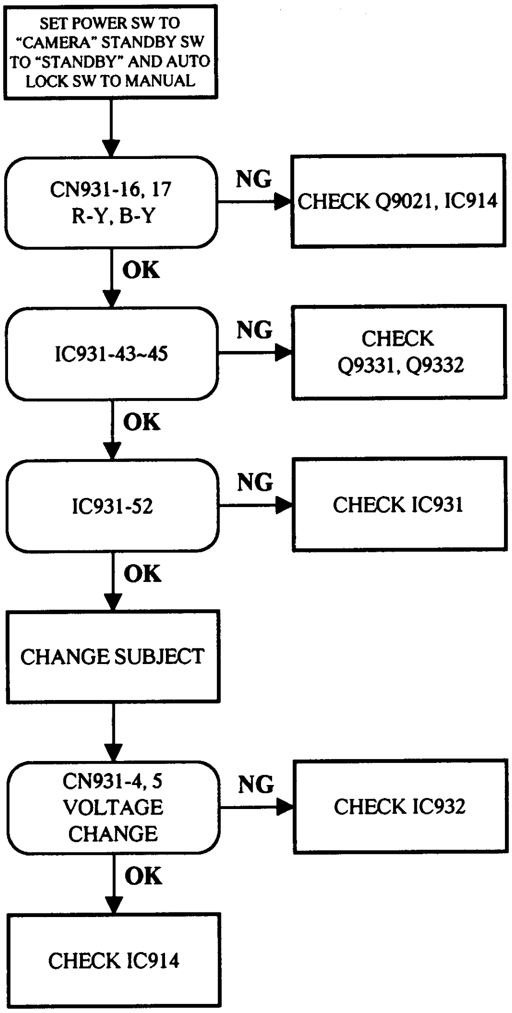
INCORRECT AUTO EXPOSURE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
IC931-40, 41 AE IN and CLP VOLTAGE
NG
CHECK IC917, Q9311
OK
IC931-52
NG
CHECK IC931
OK
CHANGE ILLUMINATION
IC935-5 VOLTAGE CHANGE
NG
CHECK IC932
OK
REFER TO "INCORRECT AUTO IRIS"

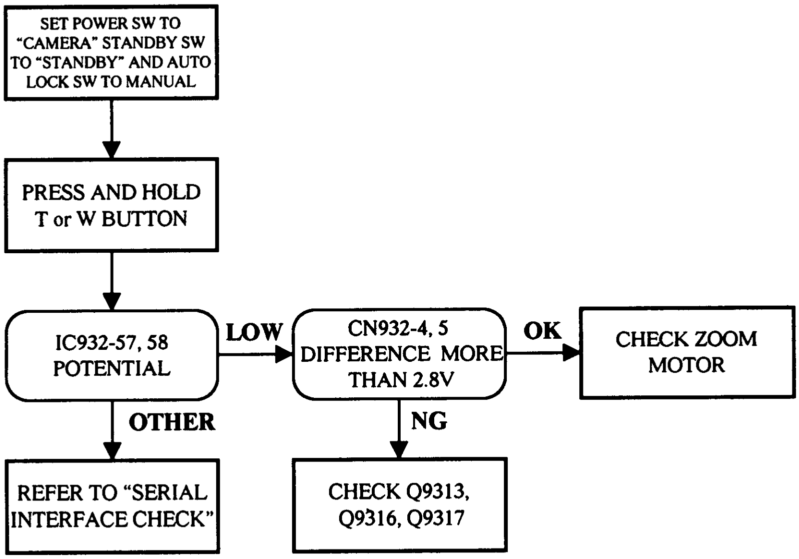
AUTO-FOCUS INOPERATIVE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
AF MOTOR MOVEMENT
STOP
REFER TO "SERIAL INTERFACE CHECK"
CHECK CONNECTOR, MOTOR, LENS
MOVE
LENS ADJUSTMENT
NO OR NG
IC931-34, 35 INPUT SIGNAL
NG
CHECK AF DATA INPUT BLOCK (Q9301~Q9306)
OK
IC931-50 OUTPUT SIGNAL
NG
CHECK IC931
OK
IC931-52 INPUT SIGNAL
NG
CHECK LPF BLOCK
OK
IC932-49, 68 OUTPUT SIGNAL
NG
CHECK IC931, IC932
OK
IC933-13, 15, 17,19 OUTPUT SIGNAL
NG
CHECK IC933
OK
CHECK CONNECTOR, MOTOR, LENS

INCORRECT AUTO WHITE BALANCE

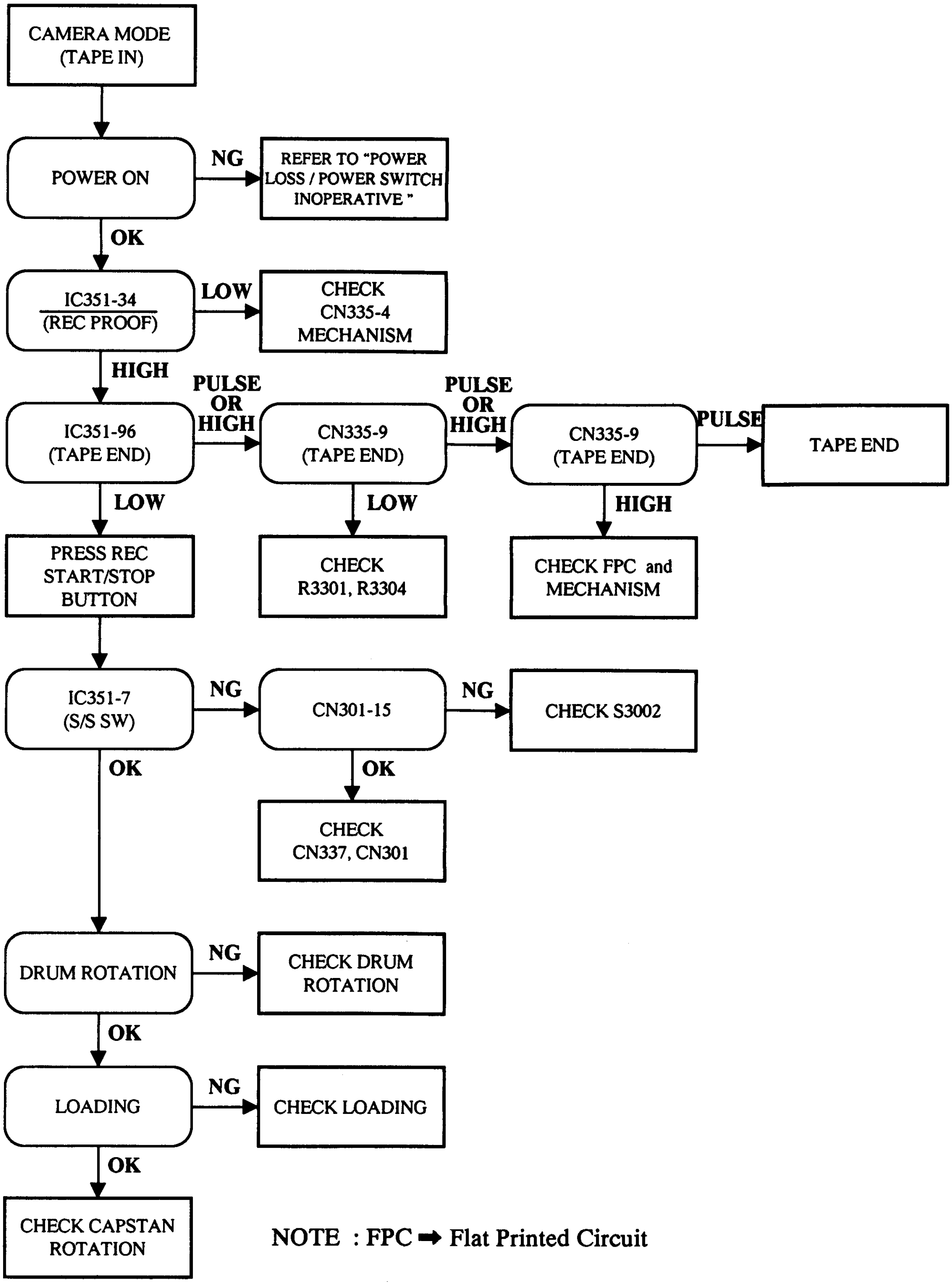

SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
CN931-16, 17 R-Y, B-Y
NG
CHECK Q9021, IC914
OK
IC931-43~45
NG
CHECK Q9331, Q9332
OK
IC931-52
NG
CHECK IC931
OK
CHANGE SUBJECT
CN931-4, 5 VOLTAGE CHANGE
NG
CHECK IC932
OK
CHECK IC914

POWER ZOOM INOPERATIVE


SET POWER SW TO "CAMERA" STANDBY SW TO "STANDBY" AND AUTO LOCK SW TO MANUAL
PRESS AND HOLD T or W BUTTON
IC932-57, 58 POTENTIAL
LOW
CN932-4, 5 DIFFERENCE MORE THAN 2.8V
OK
CHECK ZOOM MOTOR
OTHER
REFER TO "SERIAL INTERFACE CHECK"
NG
CHECK Q9313, Q9316, Q9317

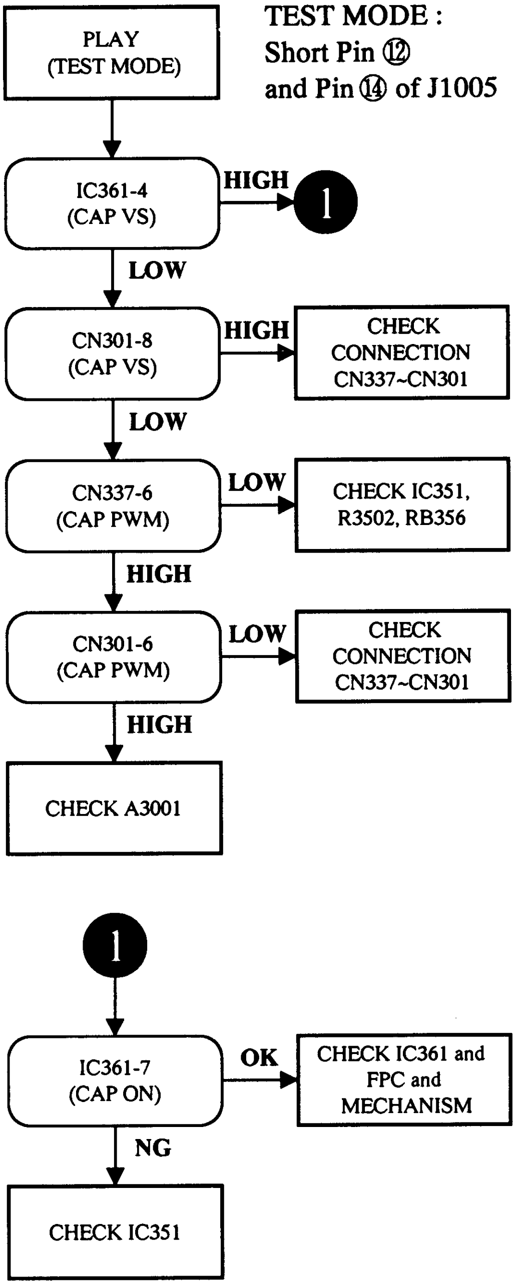
8-2. SERVO/SYSTEM CONTROL CIRCUIT

RECORD MODE INOPERATIVE


CAMERA MODE (TAPE IN)
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
IC351-34 (REC PROOF)
LOW
CHECK CN335-4 MECHANISM
HIGH
IC351-96 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE
TAPE END
LOW
PRESS REC START/STOP BUTTON
LOW
CHECK R3301, R3304
HIGH
CHECK FPC and MECHANISM
IC351-7 (S/S SW)
NG
CN301-15
NG
CHECK S3002
OK
CHECK CN337, CN301
OK
DRUM ROTATION
NG
CHECK DRUM ROTATION
OK
LOADING
NG
CHECK LOADING
OK
CHECK CAPSTAN ROTATION

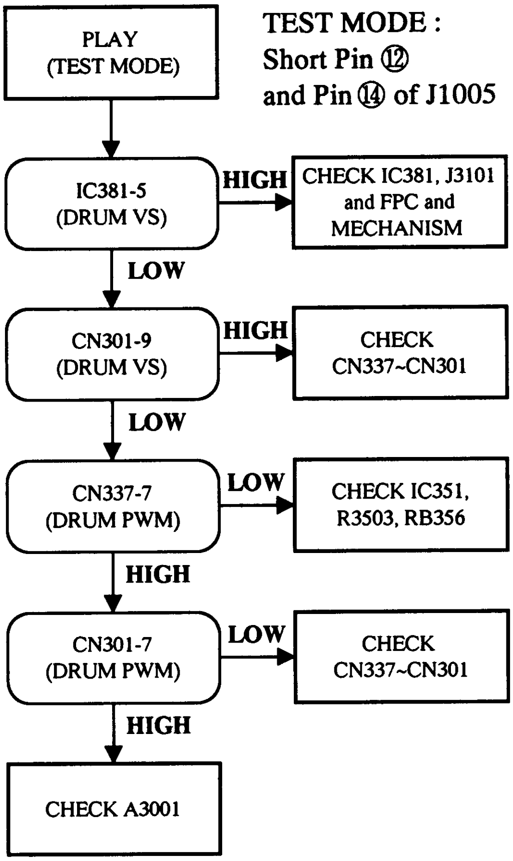
NOTE : FPC ➡ Flat Printed Circuit

CAPSTAN DOES NOT ROTATE


PLAY
(TEST MODE)
IC361-4
(CAP VS)
HIGH
1
LOW
CN301-8
(CAP VS)
HIGH
CHECK
CONNECTION
CN337~CN301
LOW
CN337-6
(CAP PWM)
LOW
CHECK IC351,
R3502, RB356
HIGH
CN301-6
(CAP PWM)
LOW
CHECK
CONNECTION
CN337~CN301
HIGH
CHECK A3001
1
IC361-7
(CAP ON)
OK
CHECK IC361 and
FPC and
MECHANISM
NG
CHECK IC351

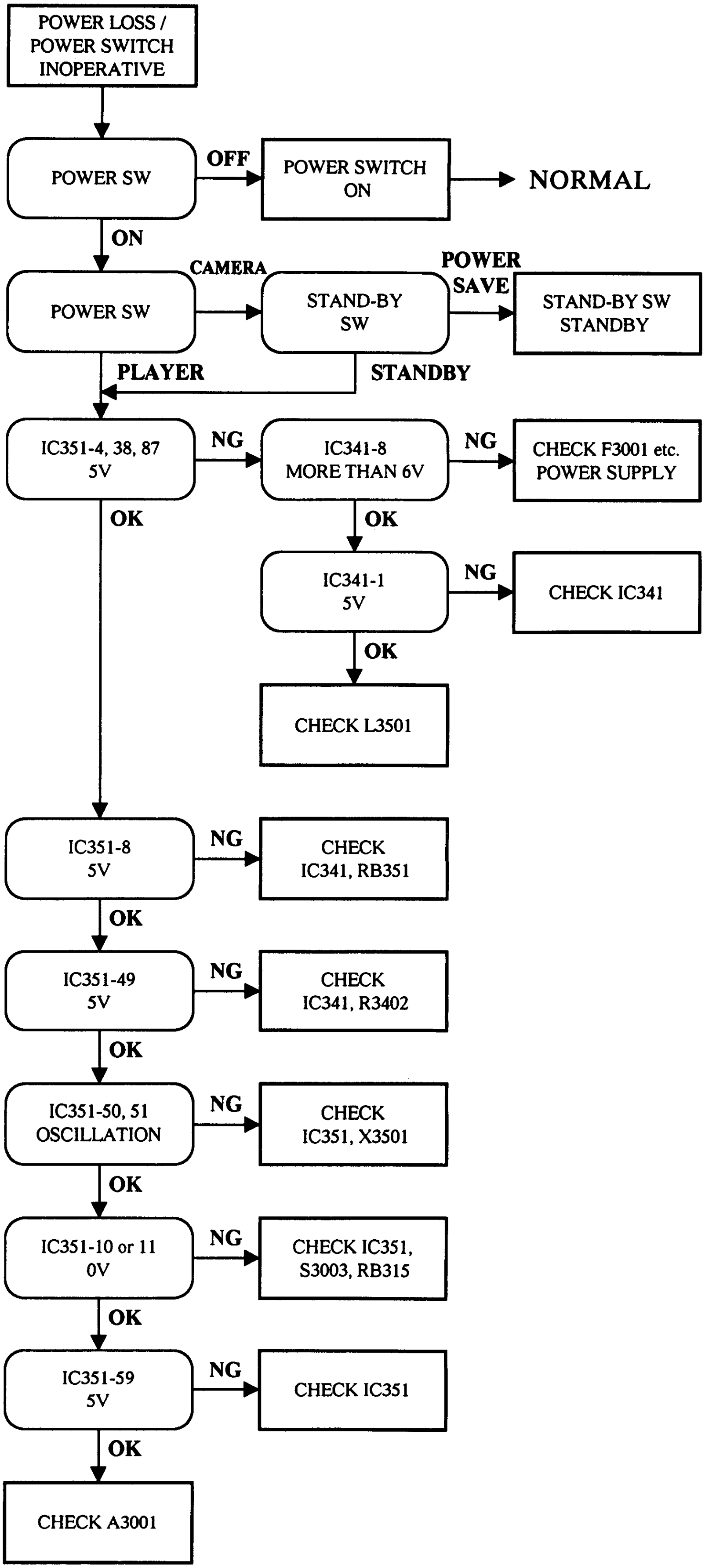
TEST MODE :
Short Pin ⑫
and Pin ⑭ of J1005

DRUM DOES NOT ROTATE

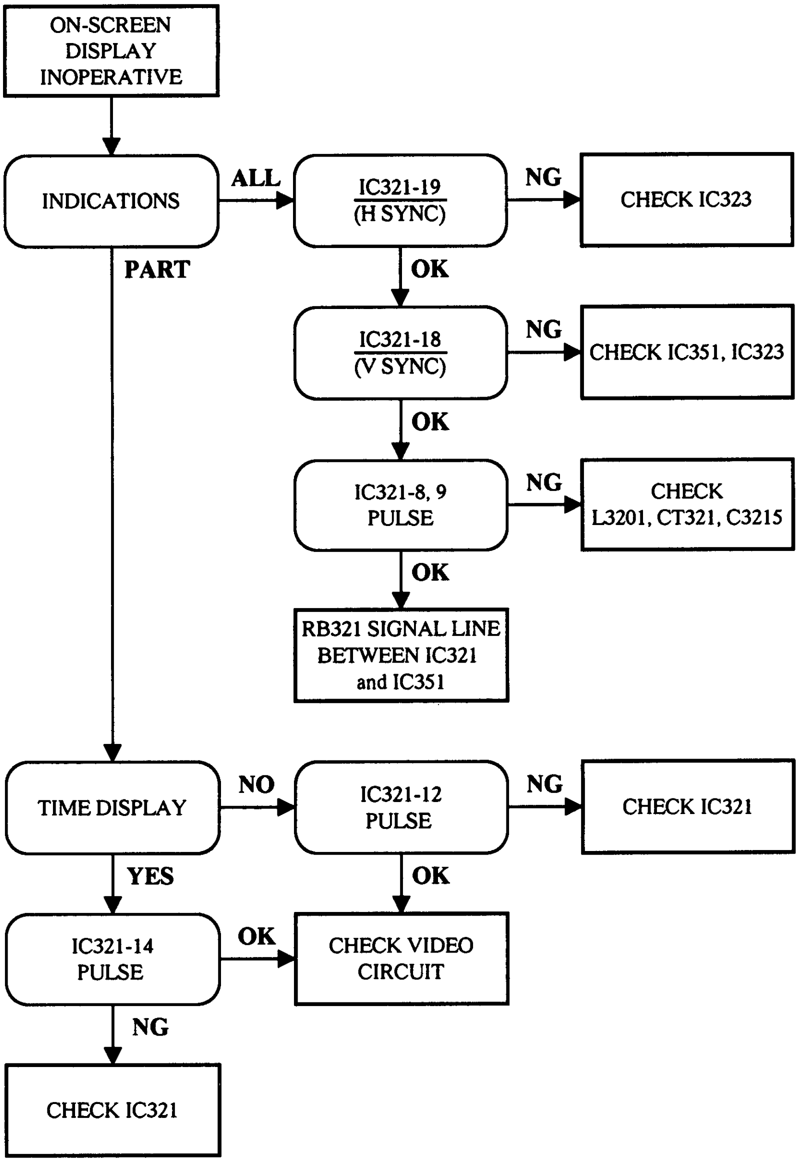

PLAY
(TEST MODE)
IC381-5
(DRUM VS)
HIGH
CHECK IC381, J3101
and FPC and
MECHANISM
LOW
CN301-9
(DRUM VS)
HIGH
CHECK
CN337~CN301
LOW
CN337-7
(DRUM PWM)
LOW
CHECK IC351,
R3503, RB356
HIGH
CN301-7
(DRUM PWM)
LOW
CHECK
CN337~CN301
HIGH
CHECK A3001

TEST MODE :
Short Pin ⑫
and Pin ⑭ of J1005

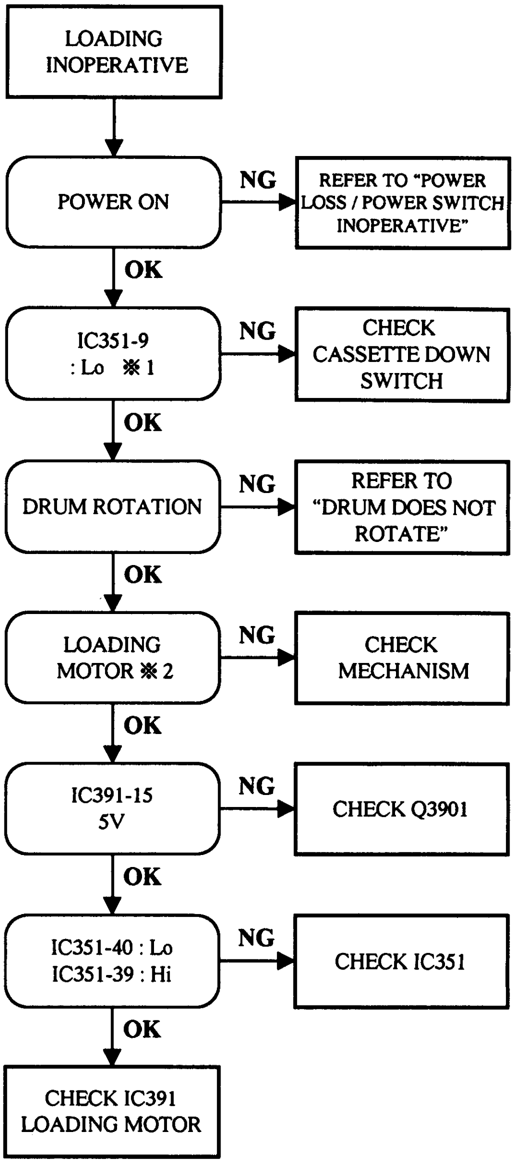
POWER LOSS / POWER SWITCH INOPERATIVE


POWER LOSS / POWER SWITCH INOPERATIVE
POWER SW
OFF
POWER SWITCH ON
NORMAL
ON
POWER SW
CAMERA
STAND-BY SW
POWER SAVE
STAND-BY SW STANDBY
PLAYER
STANDBY
IC351-4, 38, 87 5V
NG
IC341-8 MORE THAN 6V
NG
CHECK F3001 etc. POWER SUPPLY
OK
OK
IC341-1 5V
NG
CHECK IC341
OK
CHECK L3501
IC351-8 5V
NG
CHECK IC341, RB351
OK
IC351-49 5V
NG
CHECK IC341, R3402
OK
IC351-50, 51 OSCILLATION
NG
CHECK IC351, X3501
OK
IC351-10 or 11 0V
NG
CHECK IC351, S3003, RB315
OK
IC351-59 5V
NG
CHECK IC351
OK
CHECK A3001

ON-SCREEN DISPLAY INOPERATIVE


ON-SCREEN DISPLAY INOPERATIVE
INDICATIONS
ALL
IC321-19 (H SYNC)
NG
CHECK IC323
OK
IC321-18 (V SYNC)
NG
CHECK IC351, IC323
OK
IC321-8, 9 PULSE
NG
CHECK L3201, CT321, C3215
OK
RB321 SIGNAL LINE BETWEEN IC321 and IC351
PART
TIME DISPLAY
NO
IC321-12 PULSE
NG
CHECK IC321
OK
YES
IC321-14 PULSE
OK
CHECK VIDEO CIRCUIT
NG
CHECK IC321

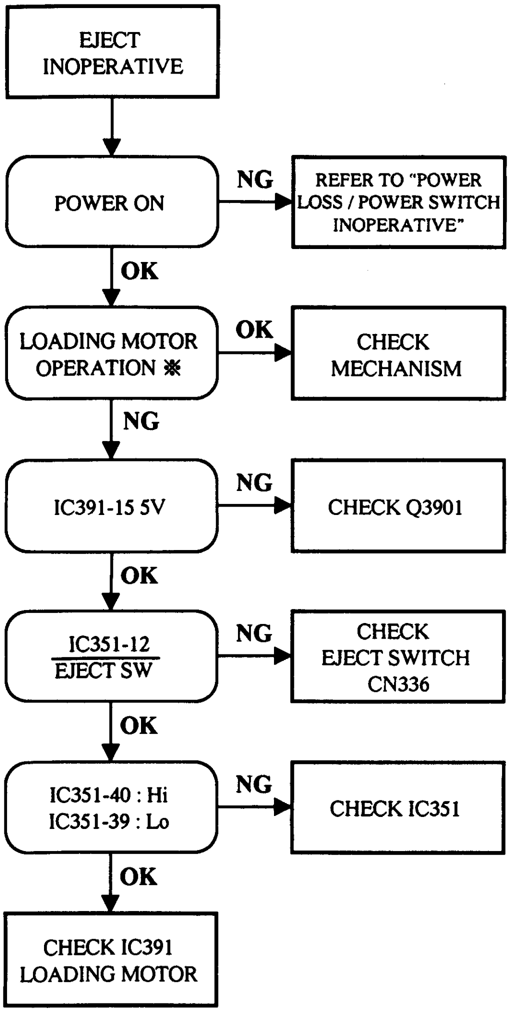
LOADING INOPERATIVE


LOADING INOPERATIVE
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
IC351-9 : Lo ※1
NG
CHECK CASSETTE DOWN SWITCH
OK
DRUM ROTATION
NG
REFER TO "DRUM DOES NOT ROTATE"
OK
LOADING MOTOR ※2
NG
CHECK MECHANISM
OK
IC391-15 5V
NG
CHECK Q3901
OK
IC351-40 : Lo
IC351-39 : Hi
NG
CHECK IC351
OK
CHECK IC391 LOADING MOTOR

※1 IC351-9 Hi : Cassette holder up
Lo : Cassette holder down

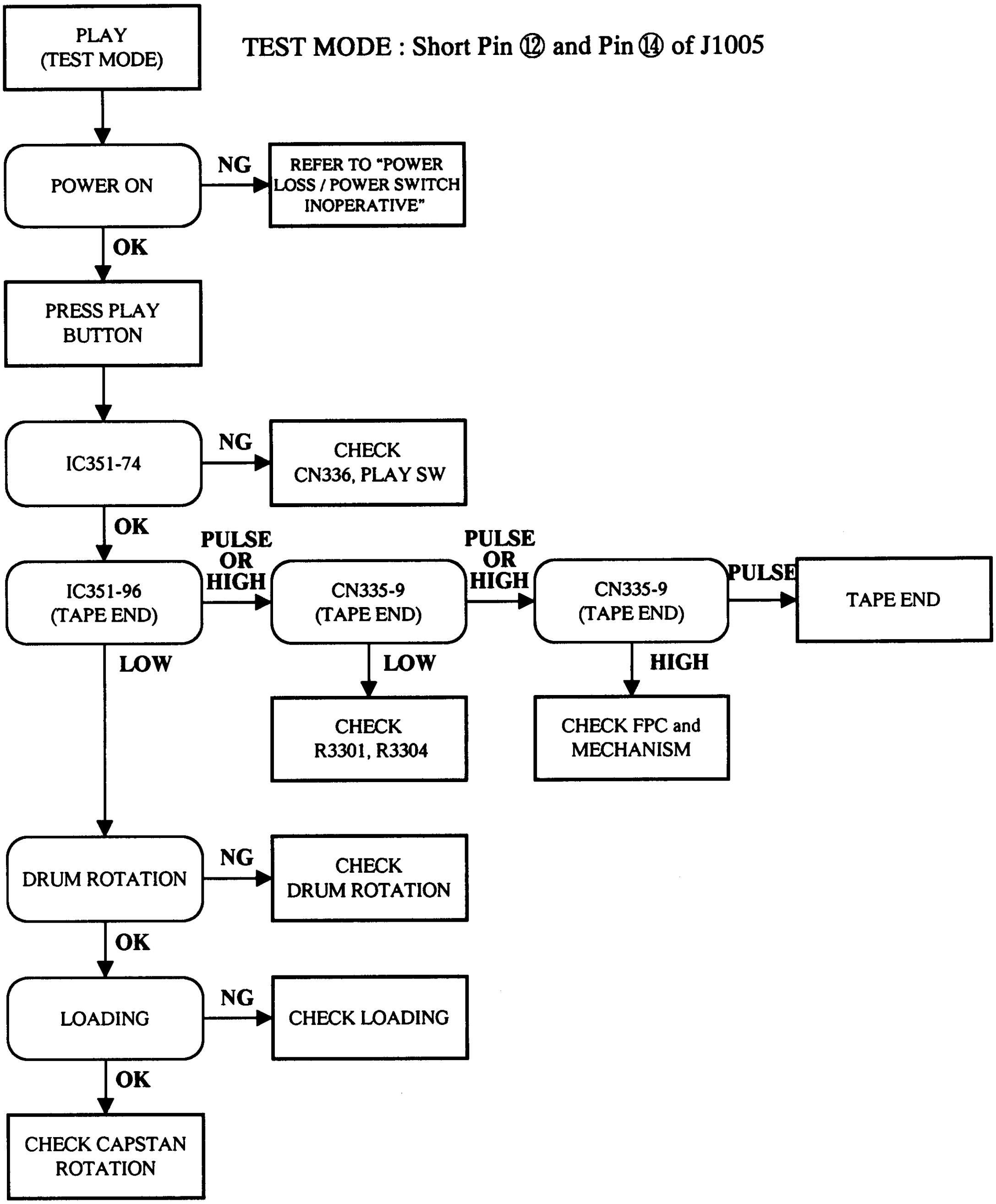
※2 Loading Motor starts loading
when cassette holder is down.

EJECT INOPERATIVE


EJECT INOPERATIVE
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
LOADING MOTOR OPERATION ※
OK
CHECK MECHANISM
NG
IC391-15 5V
NG
CHECK Q3901
OK
IC351-12 EJECT SW
NG
CHECK EJECT SWITCH CN336
OK
IC351-40 : Hi
IC351-39 : Lo
NG
CHECK IC351
OK
CHECK IC391 LOADING MOTOR

※ Loading Motor starts unloading
when EJECT BUTTON is pressed.

PLAY MODE INOPERATIVE

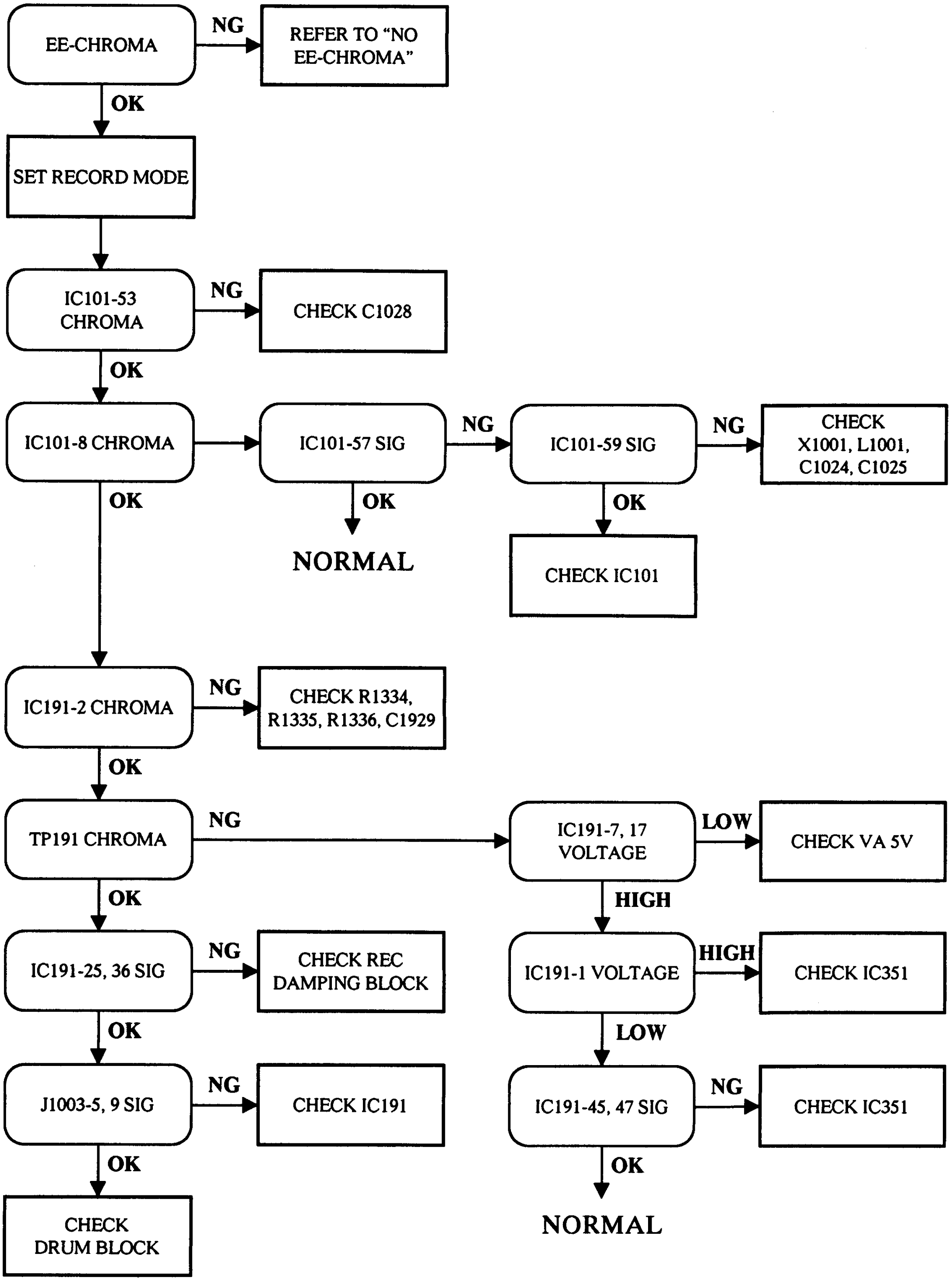


TEST MODE : Short Pin ⑫ and Pin ⑭ of J1005

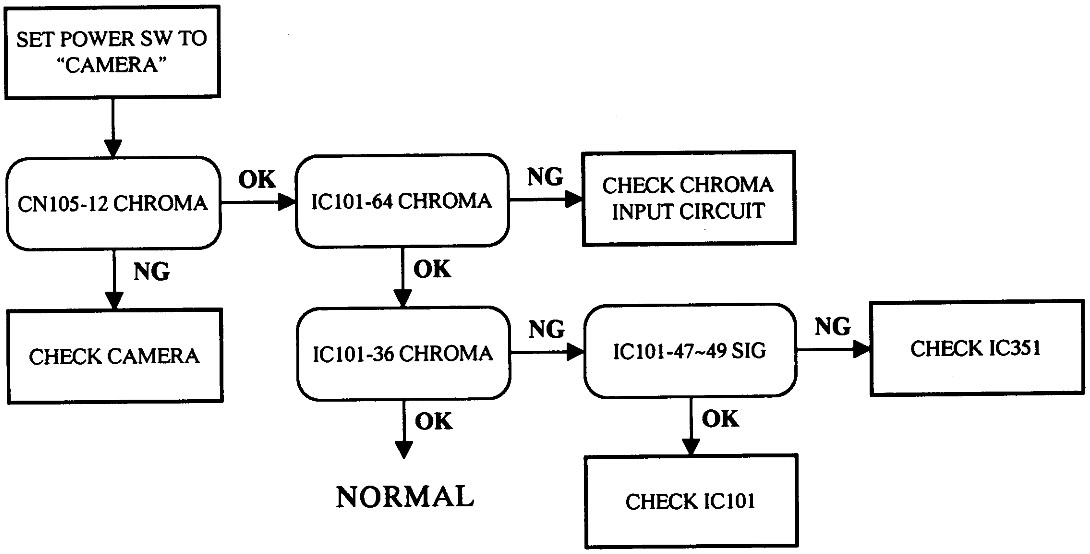
PLAY (TEST MODE)
POWER ON
NG
REFER TO "POWER LOSS / POWER SWITCH INOPERATIVE"
OK
PRESS PLAY BUTTON
IC351-74
NG
CHECK CN336, PLAY SW
OK
IC351-96 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE OR HIGH
CN335-9 (TAPE END)
PULSE
TAPE END
LOW
LOW
CHECK R3301, R3304
HIGH
CHECK FPC and MECHANISM
DRUM ROTATION
NG
CHECK DRUM ROTATION
OK
LOADING
NG
CHECK LOADING
OK
CHECK CAPSTAN ROTATION

8-3. VIDEO CIRCUIT

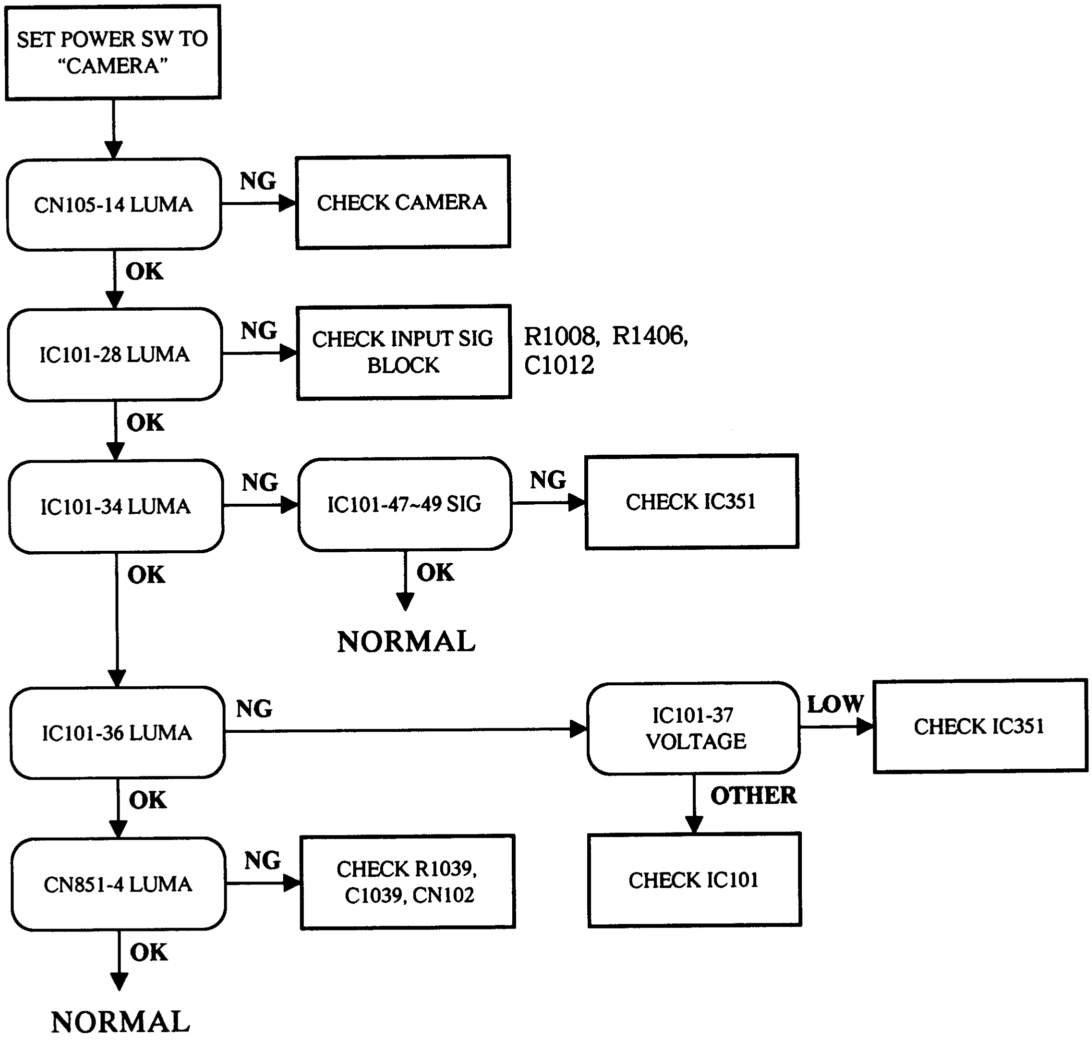
NO RECORD CHROMA


EE-CHROMA
NG
REFER TO "NO EE-CHROMA"
OK
SET RECORD MODE
IC101-53 CHROMA
NG
CHECK C1028
OK
IC101-8 CHROMA
IC101-57 SIG
NG
IC101-59 SIG
NG
CHECK X1001, L1001, C1024, C1025
OK
NORMAL
OK
CHECK IC101
OK
IC191-2 CHROMA
NG
CHECK R1334, R1335, R1336, C1929
OK
TP191 CHROMA
NG
IC191-7, 17 VOLTAGE
LOW
CHECK VA 5V
HIGH
OK
IC191-25, 36 SIG
NG
CHECK REC DAMPING BLOCK
IC191-1 VOLTAGE
HIGH
CHECK IC351
LOW
OK
J1003-5, 9 SIG
NG
CHECK IC191
IC191-45, 47 SIG
NG
CHECK IC351
OK
OK
CHECK DRUM BLOCK
NORMAL

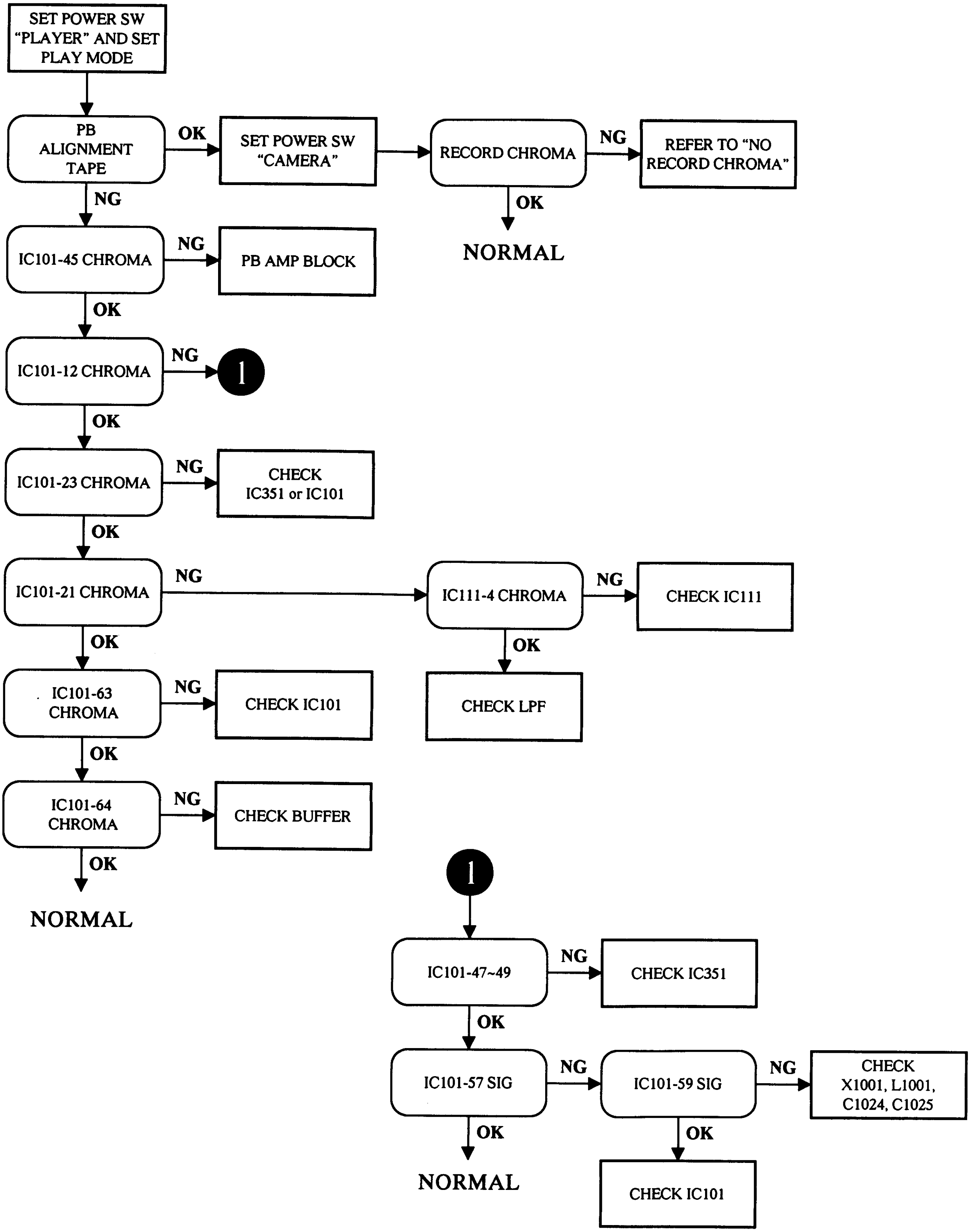
NO EE-CHROMA


SET POWER SW TO "CAMERA"
CN105-12 CHROMA
OK
NG
CHECK CAMERA
IC101-64 CHROMA
NG
CHECK CHROMA INPUT CIRCUIT
OK
IC101-36 CHROMA
NG
OK
NORMAL
IC101-47~49 SIG
NG
CHECK IC351
OK
CHECK IC101

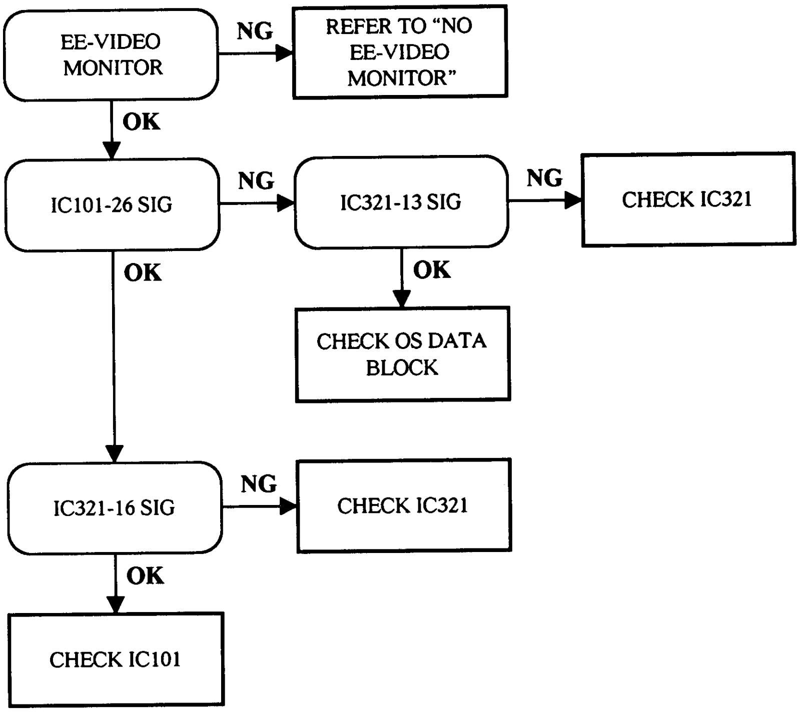
NO EE-VIDEO MONITOR


SET POWER SW TO "CAMERA"
CN105-14 LUMA
NG
CHECK CAMERA
OK
IC101-28 LUMA
NG
CHECK INPUT SIG BLOCK
R1008, R1406, C1012
OK
IC101-34 LUMA
NG
IC101-47~49 SIG
NG
CHECK IC351
OK
NORMAL
OK
IC101-36 LUMA
NG
IC101-37 VOLTAGE
LOW
CHECK IC351
OTHER
CHECK IC101
OK
CN851-4 LUMA
NG
CHECK R1039, C1039, CN102
OK
NORMAL

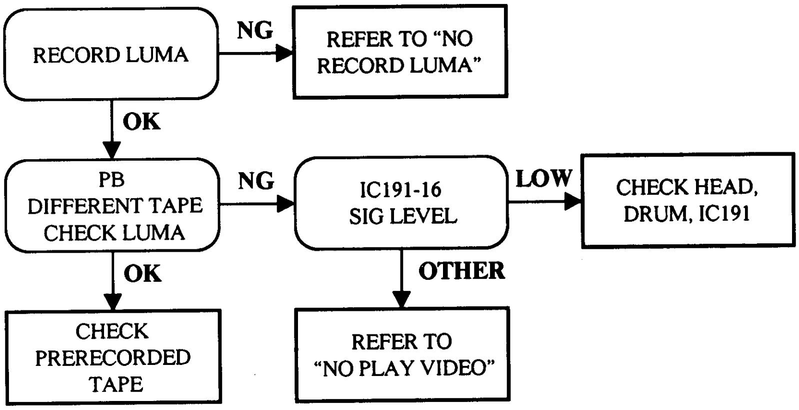
NO PLAY CHROMA


SET POWER SW "PLAYER" AND SET PLAY MODE
PB ALIGNMENT TAPE
OK
SET POWER SW "CAMERA"
RECORD CHROMA
NG
REFER TO "NO RECORD CHROMA"
OK
NORMAL
NG
IC101-45 CHROMA
NG
PB AMP BLOCK
OK
IC101-12 CHROMA
NG
1
OK
IC101-23 CHROMA
NG
CHECK IC351 or IC101
OK
IC101-21 CHROMA
NG
IC111-4 CHROMA
NG
CHECK IC111
OK
CHECK LPF
OK
IC101-63 CHROMA
NG
CHECK IC101
OK
IC101-64 CHROMA
NG
CHECK BUFFER
OK
NORMAL
1
IC101-47~49
NG
CHECK IC351
OK
IC101-57 SIG
NG
IC101-59 SIG
NG
CHECK X1001, L1001, C1024, C1025
OK
NORMAL
OK
CHECK IC101

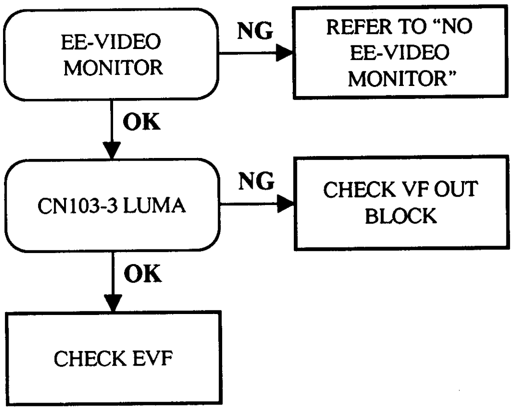
ON-SCREEN DISPLAY INOPERATIVE


EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
IC101-26 SIG
NG
IC321-13 SIG
NG
CHECK IC321
OK
OK
CHECK OS DATA BLOCK
IC321-16 SIG
NG
CHECK IC321
OK
CHECK IC101

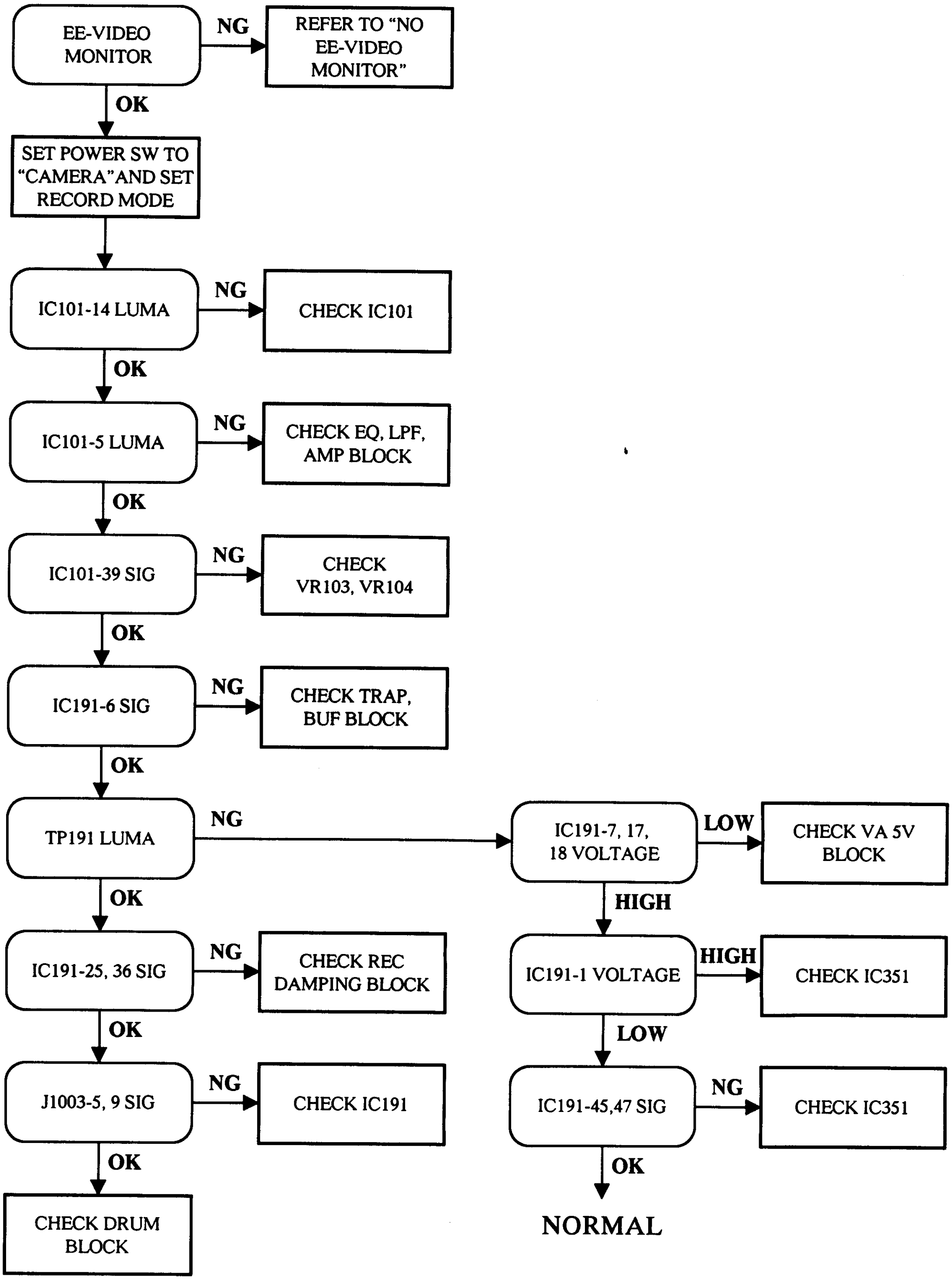
NOISY PICTURE ONLY WHEN PRERECORDED (ALIGNMENT) TAPE IS PLAYED BACK


RECORD LUMA
NG
REFER TO "NO RECORD LUMA"
OK
PB DIFFERENT TAPE CHECK LUMA
NG
IC191-16 SIG LEVEL
LOW
CHECK HEAD, DRUM, IC191
OK
OTHER
CHECK PRERECORDED TAPE
REFER TO "NO PLAY VIDEO"

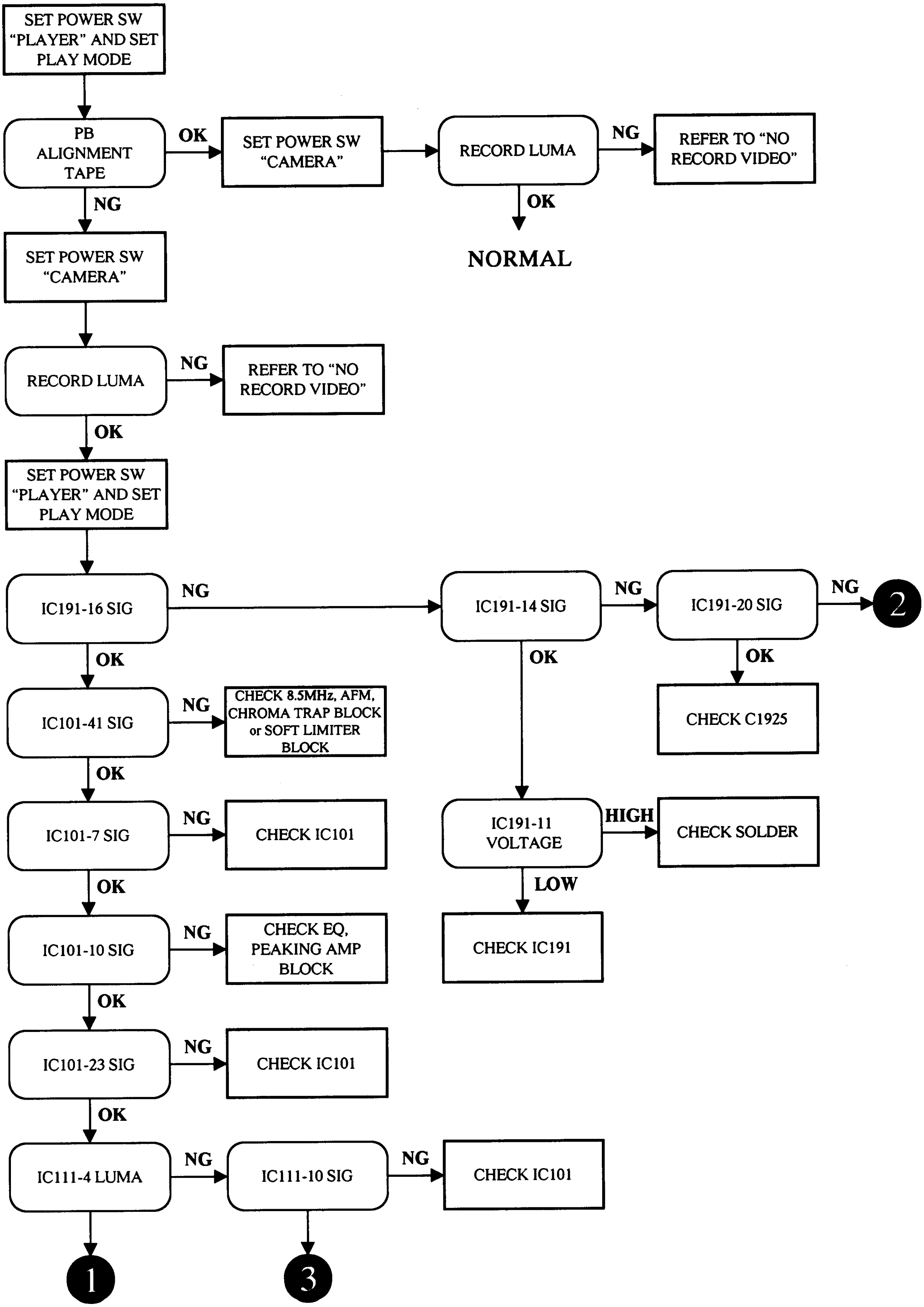
NO PICTURE IN EVF


EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
CN103-3 LUMA
NG
CHECK VF OUT BLOCK
OK
CHECK EVF

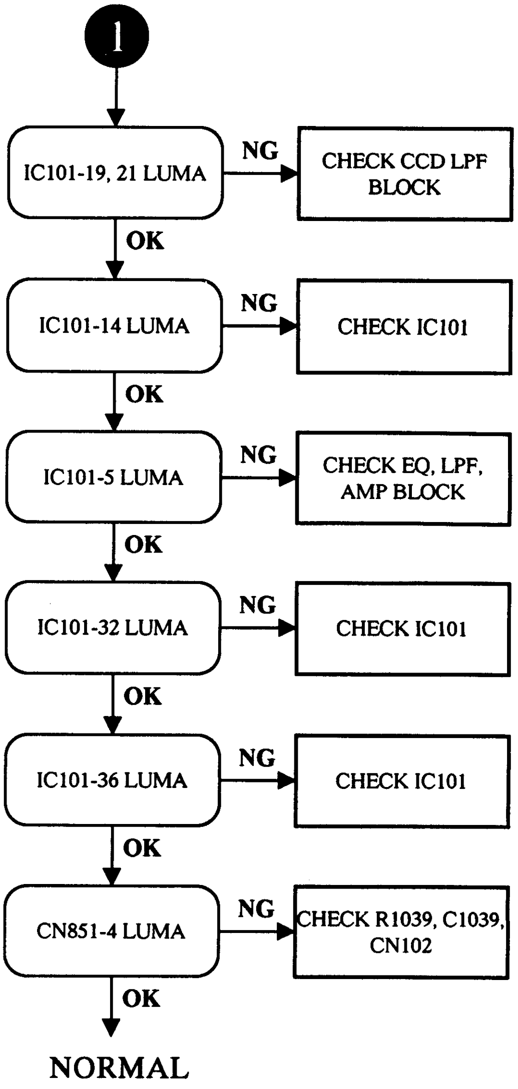
NO RECORD VIDEO

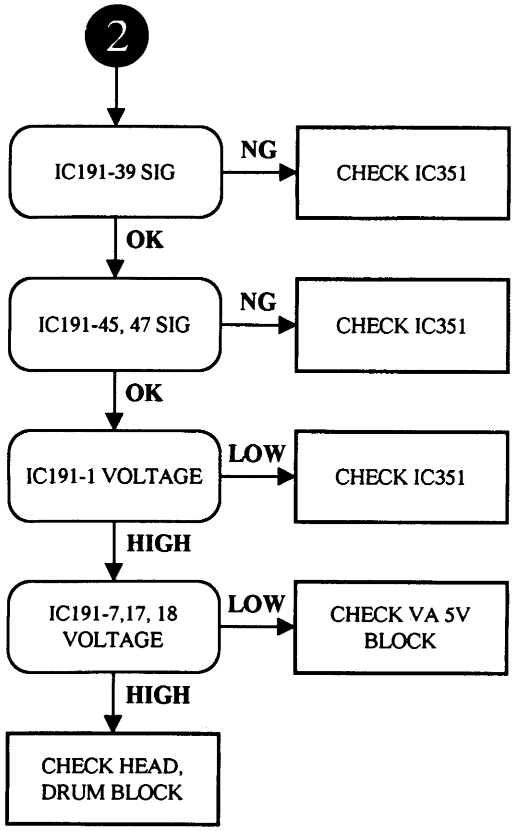

EE-VIDEO MONITOR
NG
REFER TO "NO EE-VIDEO MONITOR"
OK
SET POWER SW TO "CAMERA" AND SET RECORD MODE
IC101-14 LUMA
NG
CHECK IC101
OK
IC101-5 LUMA
NG
CHECK EQ, LPF, AMP BLOCK
OK
IC101-39 SIG
NG
CHECK VR103, VR104
OK
IC191-6 SIG
NG
CHECK TRAP, BUF BLOCK
OK
TP191 LUMA
NG
IC191-7, 17, 18 VOLTAGE
LOW
CHECK VA 5V BLOCK
HIGH
IC191-1 VOLTAGE
HIGH
CHECK IC351
LOW
IC191-45,47 SIG
NG
CHECK IC351
OK
NORMAL
OK
IC191-25, 36 SIG
NG
CHECK REC DAMPING BLOCK
OK
J1003-5, 9 SIG
NG
CHECK IC191
OK
CHECK DRUM BLOCK

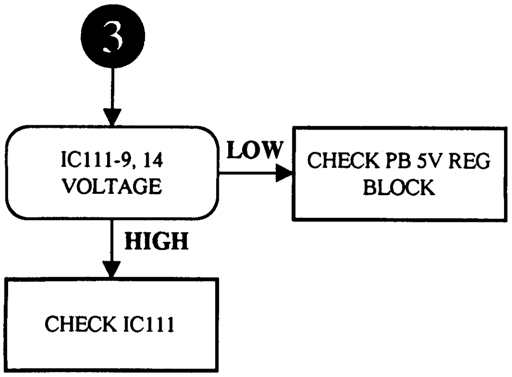
NO PLAY VIDEO


SET POWER SW "PLAYER" AND SET PLAY MODE
PB ALIGNMENT TAPE
OK
SET POWER SW "CAMERA"
RECORD LUMA
NG
REFER TO "NO RECORD VIDEO"
OK
NORMAL
NG
SET POWER SW "CAMERA"
RECORD LUMA
NG
REFER TO "NO RECORD VIDEO"
OK
SET POWER SW "PLAYER" AND SET PLAY MODE
IC191-16 SIG
NG
IC191-14 SIG
NG
IC191-20 SIG
NG
2
OK
CHECK C1925
OK
IC191-11 VOLTAGE
HIGH
CHECK SOLDER
LOW
CHECK IC191
OK
IC101-41 SIG
NG
CHECK 8.5MHz, AFM, CHROMA TRAP BLOCK or SOFT LIMITER BLOCK
OK
IC101-7 SIG
NG
CHECK IC101
OK
IC101-10 SIG
NG
CHECK EQ, PEAKING AMP BLOCK
OK
IC101-23 SIG
NG
CHECK IC101
OK
IC111-4 LUMA
NG
IC111-10 SIG
NG
CHECK IC101
1
3

NO PLAY VIDEO (Continued)

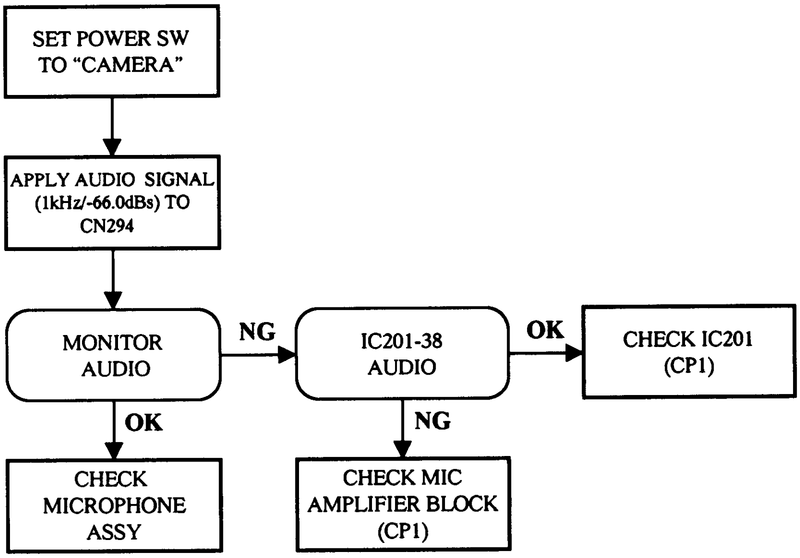

1
IC101-19, 21 LUMA
NG
CHECK CCD LPF BLOCK
OK
IC101-14 LUMA
NG
CHECK IC101
OK
IC101-5 LUMA
NG
CHECK EQ, LPF, AMP BLOCK
OK
IC101-32 LUMA
NG
CHECK IC101
OK
IC101-36 LUMA
NG
CHECK IC101
OK
CN851-4 LUMA
NG
CHECK R1039, C1039, CN102
OK
NORMAL


2
IC191-39 SIG
NG
CHECK IC351
OK
IC191-45, 47 SIG
NG
CHECK IC351
OK
IC191-1 VOLTAGE
LOW
CHECK IC351
HIGH
IC191-7,17, 18 VOLTAGE
LOW
CHECK VA 5V BLOCK
HIGH
CHECK HEAD, DRUM BLOCK

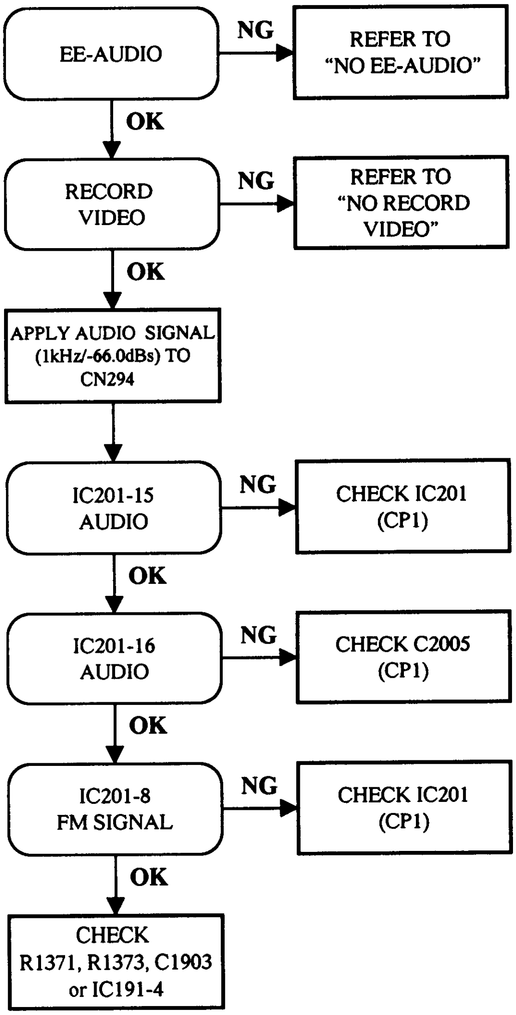

3
IC111-9, 14 VOLTAGE
LOW
CHECK PB 5V REG BLOCK
HIGH
CHECK IC111

8-4. AUDIO CIRCUIT

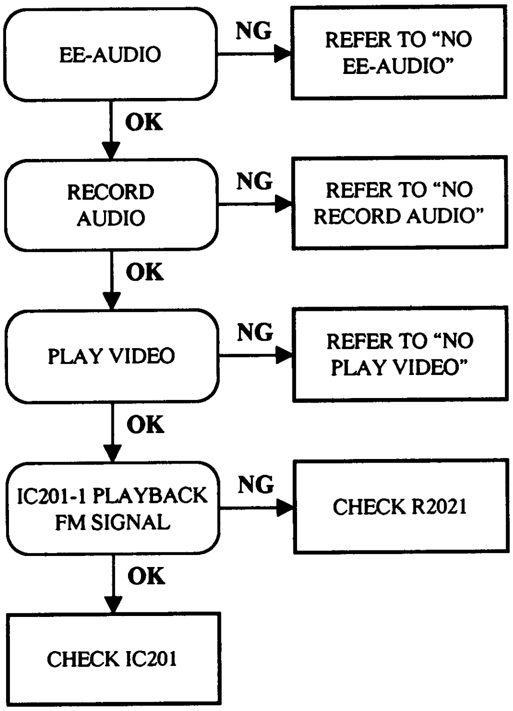
NO EE-AUDIO


SET POWER SW TO "CAMERA"
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294
MONITOR AUDIO
NG
IC201-38 AUDIO
OK
CHECK IC201 (CP1)
OK
CHECK MICROPHONE ASSY
NG
CHECK MIC AMPLIFIER BLOCK (CP1)

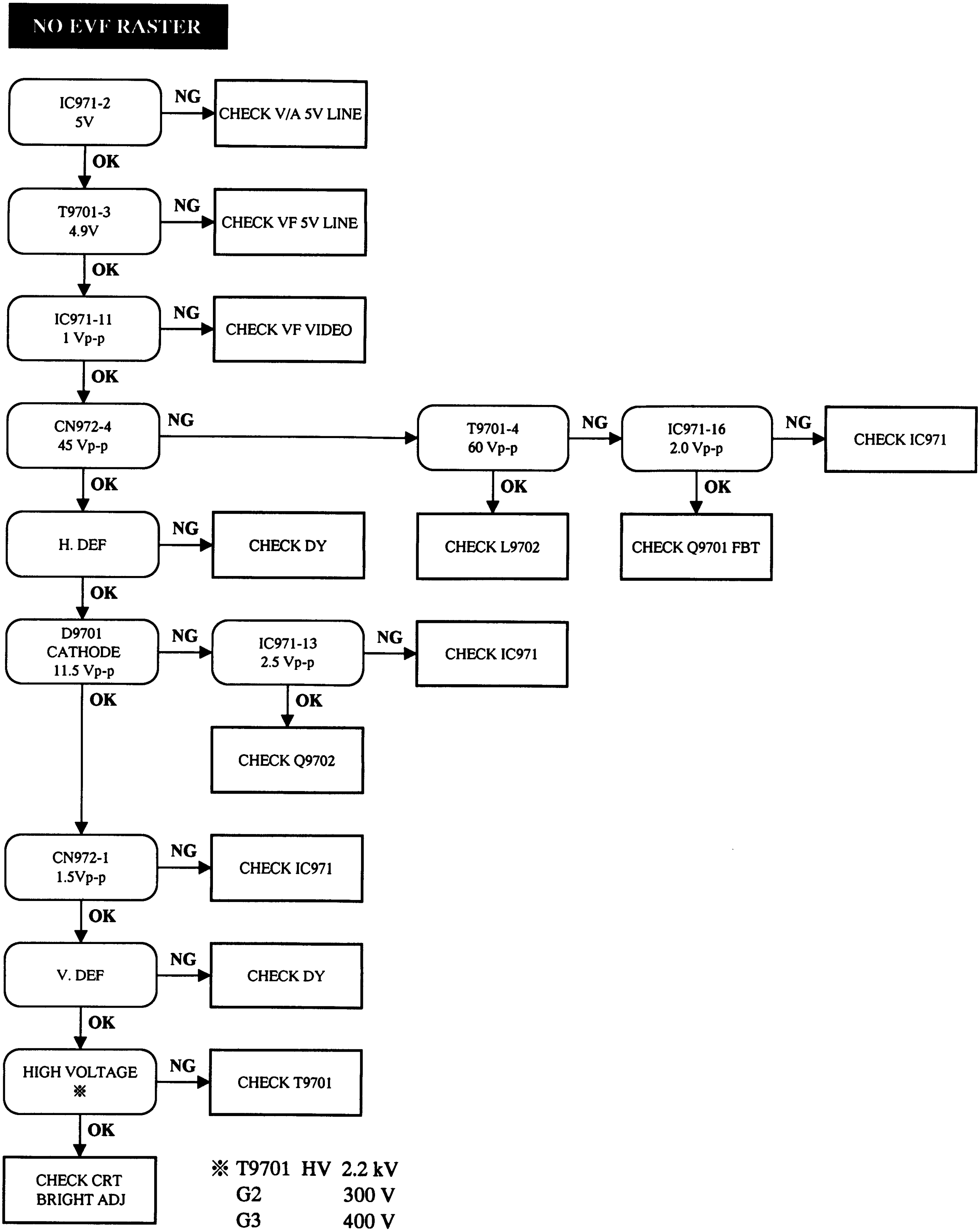
NO RECORD AUDIO


EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD VIDEO
NG
REFER TO "NO RECORD VIDEO"
OK
APPLY AUDIO SIGNAL (1kHz/-66.0dBs) TO CN294
IC201-15 AUDIO
NG
CHECK IC201 (CP1)
OK
IC201-16 AUDIO
NG
CHECK C2005 (CP1)
OK
IC201-8 FM SIGNAL
NG
CHECK IC201 (CP1)
OK
CHECK R1371, R1373, C1903 or IC191-4

NO PLAY AUDIO


EE-AUDIO
NG
REFER TO "NO EE-AUDIO"
OK
RECORD AUDIO
NG
REFER TO "NO RECORD AUDIO"
OK
PLAY VIDEO
NG
REFER TO "NO PLAY VIDEO"
OK
IC201-1 PLAYBACK FM SIGNAL
NG
CHECK R2021
OK
CHECK IC201

8-5. VIEWFINDER CIRCUIT


NO EVF RASTER
IC971-2 5V
NG
CHECK V/A 5V LINE
OK
T9701-3 4.9V
NG
CHECK VF 5V LINE
OK
IC971-11 1 Vp-p
NG
CHECK VF VIDEO
OK
CN972-4 45 Vp-p
NG
T9701-4 60 Vp-p
NG
IC971-16 2.0 Vp-p
NG
CHECK IC971
OK
CHECK L9702
OK
CHECK Q9701 FBT
OK
H. DEF
NG
CHECK DY
OK
D9701 CATHODE 11.5 Vp-p
NG
IC971-13 2.5 Vp-p
NG
CHECK IC971
OK
CHECK Q9702
OK
CN972-1 1.5Vp-p
NG
CHECK IC971
OK
V. DEF
NG
CHECK DY
OK
HIGH VOLTAGE ※
NG
CHECK T9701
OK
CHECK CRT BRIGHT ADJ

※ T9701 HV 2.2 kV
G2 300 V
G3 400 V

SANYO Electric Co., Ltd.
Osaka, Japan

Apr. / '94 / 3,450NS Printed in Japan

SANYO

FILE No.

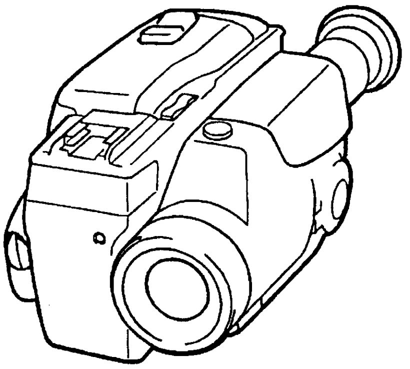
PARTS LIST

8 mm Camcorder

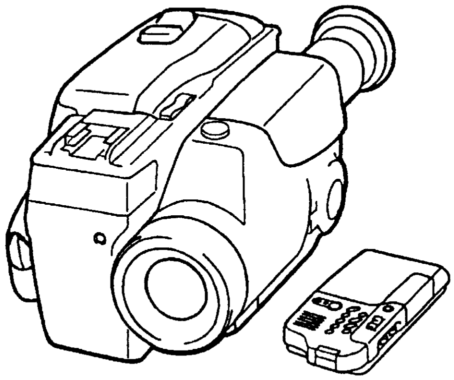
VM-EX22P (U.K.)
(EUROPE)
(GENERAL
PAL AREA)
(AUSTRALIA)

VM-EX26P (U.K.)

VM-EX33P (U.K.)
(EUROPE)



VM-EX22P
VM-EX26P



VM-EX33P

8

VM-EX22P
PRODUCTION CODE No.
126 044 00 (U.K.)
126 044 01 (EUROPE)
126 044 02 (GENERAL PAL AREA)
126 044 03 (AUSTRALIA)

VM-EX26P
PRODUCTION CODE No.
126 044 04 (U.K.)

VM-EX33P
PRODUCTION CODE No.
126 045 00 (U.K.)
126 045 04 (EUROPE)

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ELECTRICAL PARTS ······ 16
(General parts)

PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance wattage and voltage rating shown.

Note :

- The resistance values and capacitance values for the general-purpose resistors and capacitors in the part list have been omitted. To find out these resistance and capacitance values, refer to the values given in the circuit diagrams.

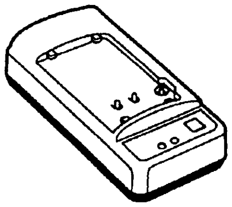
ER25P/E, EX, GX , A, ER26P/EDX, ER35MP/E, EX

REFERENCE NO. PL 550020

[ACCESSORIES AND OTHERS]

LOCATION	PARTS No.	DESCRIPTION
1	636 045 8192	CARTON, CASE, INNER (VM-EX22P/ E)
2	636 045 8987	CARTON, CASE, INNER (VM-EX22P/ EX)
3	636 045 8994	CARTON, CASE, INNER (VM-EX22P/ GX)
4	636 045 9007	CARTON, CASE, INNER (VM-EX22P/ A)
5	636 045 9243	CARTON, CASE, INNER (VM-EX26P/ EDX)
6	636 045 8246	CARTON, CASE, INNER (VM-EX33P/ E)
7	636 045 9236	CARTON, CASE, INNER (VM-EX33P/ EX)
8	636 043 2161	CUSHION, INNER, TOP
9	636 043 2178	CUSHION, INNER, BOTTOM
10	645 004 9149	ADAPTOR, AC-DC (VM-EX22P/ E, EDX)(VM-EX33P/ E)
11	645 005 1289	ADAPTOR, AC-DC (VM-EX22P/ EX, GX)(VM-EX33P/ EX)
12	645 005 3221	ADAPTOR, AC-DC(VM-EX22P/ A)
13	636 045 7881	INSTRUCTION MANUAL (VM-EX22P/ E, A)
14	636 045 8949	INSTRUCTION MANUAL (ENGLISH/FRENCH/SPANISH)(VM-EX22P/ EX, GX)
15	636 045 8963	INSTRUCTION MANUAL (ARABIC/CHINESE/RUSSIAN)(VM-EX22P/ GX)
16	636 045 8956	INSTRUCTION MANUAL (GERMAN/ITALIAN/DUTCH)(VM-EX22P/ EX)
17	636 046 1444	INSTRUCTION MANUAL (DANISH/PORTUGUESE/SWEDISH/FINNISH)(VM-EX22P/ EX)
18	636 046 0041	INSTRUCTION MANUAL (VM-EX26P/ EDX)
19	636 045 7898	INSTRUCTION MANUAL (VM-EX33P/ E)
20	636 046 0027	INSTRUCTION MANUAL (ENGLISH/FRENCH/SPANISH)(VM-EX33P/ EX)
21	636 046 0034	INSTRUCTION MANUAL (GERMAN/ITALIAN/DUTCH)(VM-EX33P/ EX)
22	636 046 1451	INSTRUCTION MANUAL (DANISH/PORTUGUESE/SWEDISH/FINNISH)(VM-EX33P/ EX)
23	645 005 0107	REMOCON (VM-EX22P, VM-EX26P)
24	645 005 0787	ASSY, REMOCON(VM-EX33P)
25	645 002 8373	CABLE, DC OUTPUT
OR	645 005 0923	CABLE, DC OUTPUT
26	636 031 2302	CABLE, RCA (VM-EX22P/EX, GX, A)(VM-EX33P/ EX)
OR	645 003 3391	CABLE, AV 2PIN (VM-EX22P/EX, GX, A)(VM-EX33P/ EX)
27	645 000 5343	RF MODULATOR (VM-EX22P, VM-EX33P/ E)(VM-EX26P/ EDX)
28	636 040 3109	RF ADAPTOR(VM-EX22P/ A)
29	636 040 2461	CABLE, RF (VM-EX22P/ E, A)(VM-EX33P/ E)(VM-EX26P/ EDX)
30	645 002 8380	CABLE, SCART ADAPTOR (VM-EX22P/ EX, GX)(VM-EX33P/ EX)
31	636 043 2192	ASSY, STRAP, SHOULDER
32	636 043 2598	LENS CAP, STRAP
33	636 044 4690	ASSY, WIRE MINI 8PIN (VM-EX33P)

10, 11, 12



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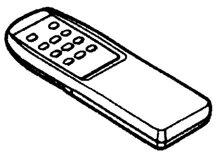

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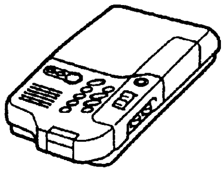

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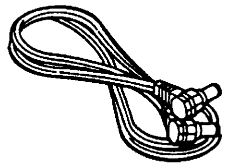

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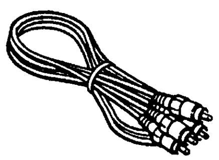

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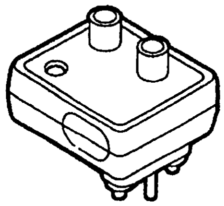

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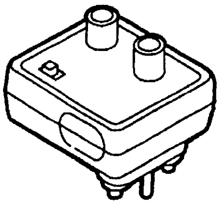

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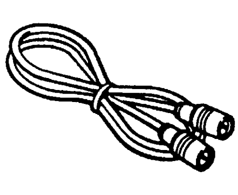

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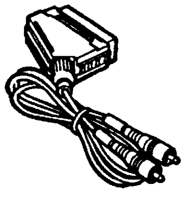

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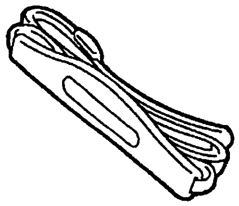

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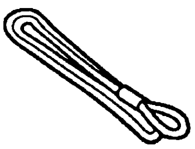

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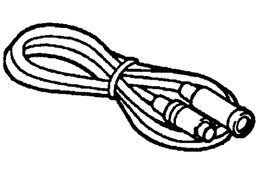


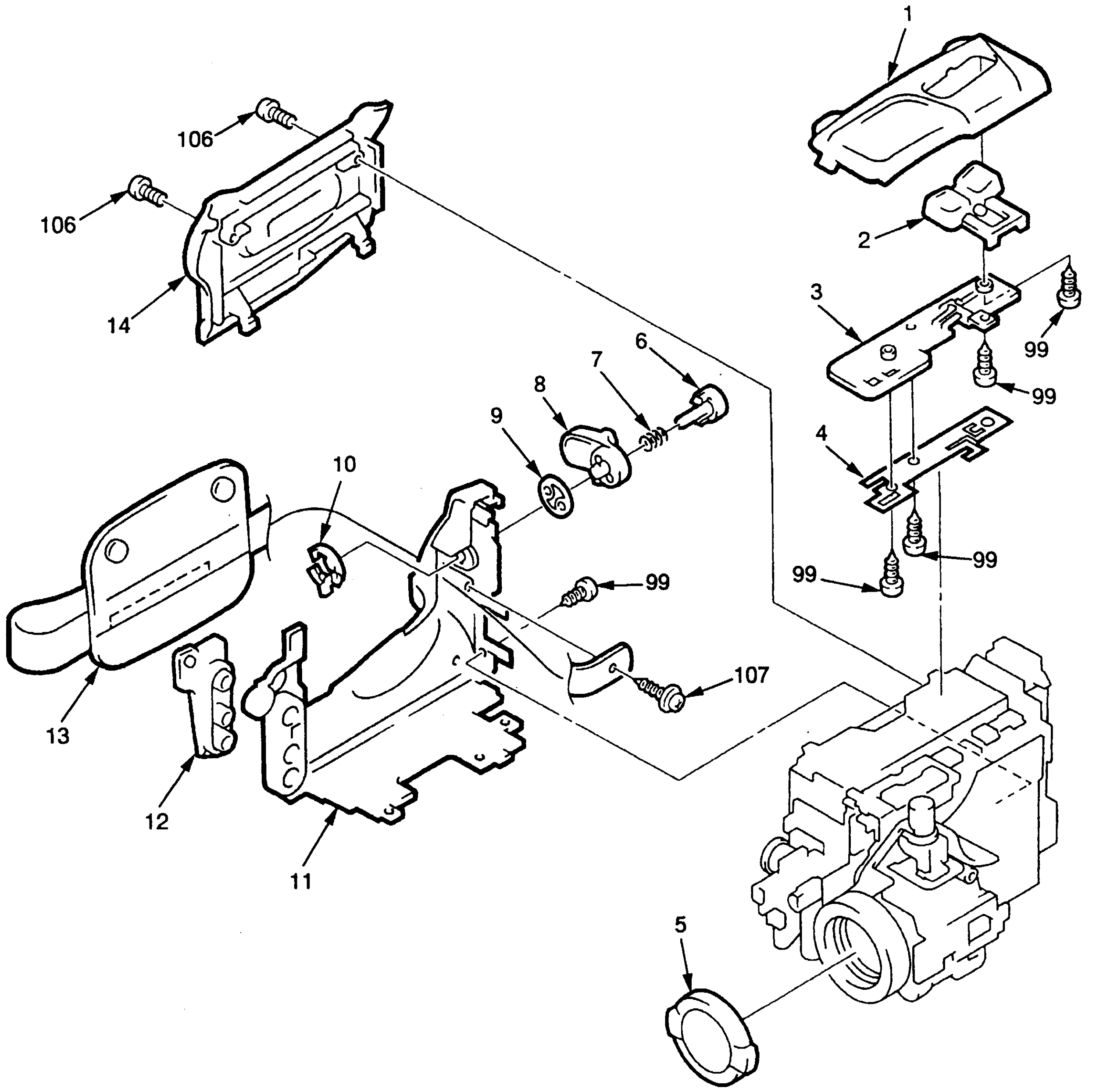
Note : Alphabetic characters enclosed by ( ) in the descriptions indicate destination countries for the VM-EX22P, VM-EX26P and VM-EX33P.

(VM-EX22P) **E** : U.K. **EX** : EUROPE **GX** : GENERAL PAL AREA **A** : AUSTRALIA

(VM-EX26P) **EDX** : U.K. **(VM-EX33P)** **E** : U.K. **EX** : EUROPE

[CABINET 1]

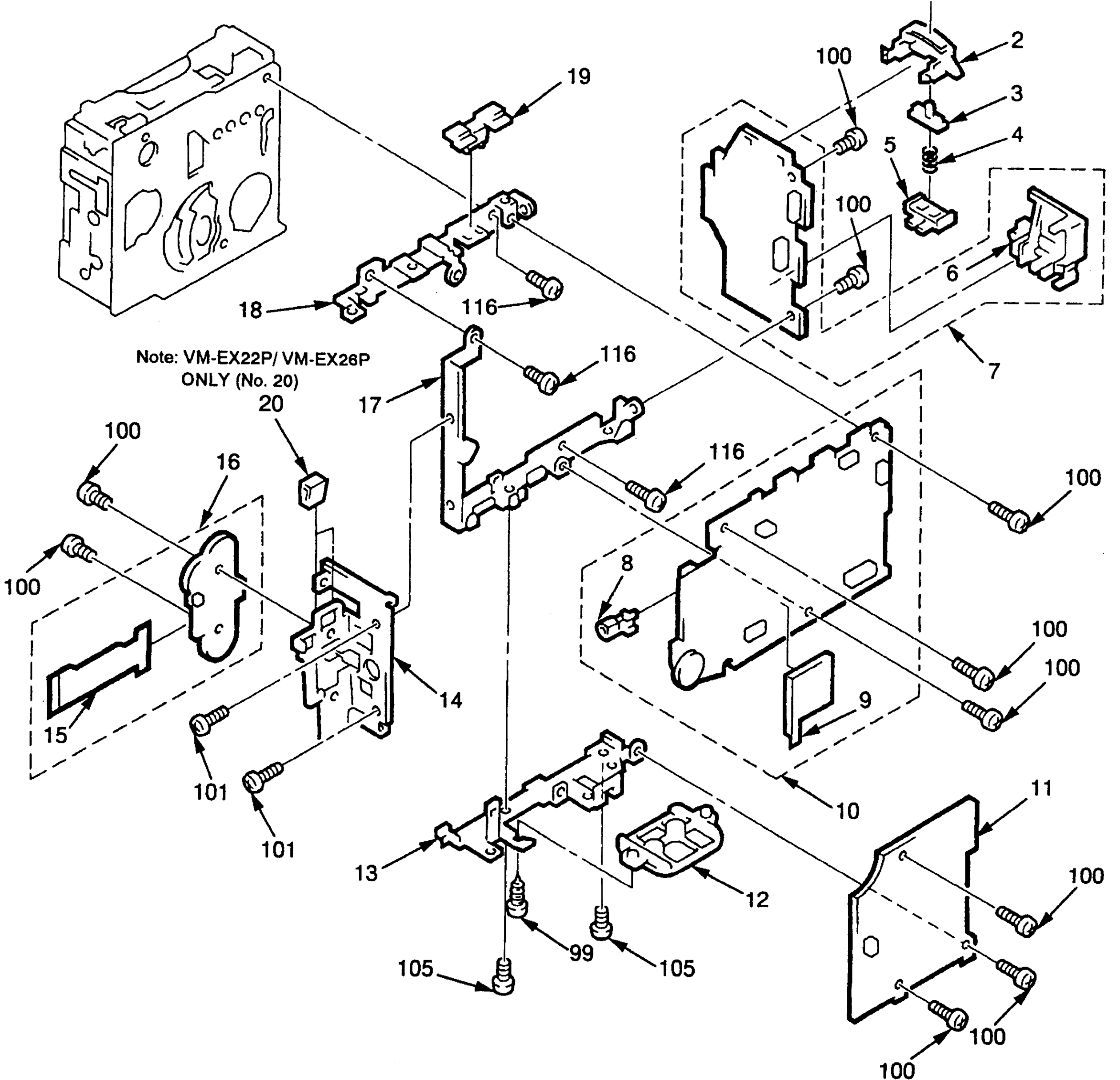
LOCATION	PARTS No.	DESCRIPTION
1	636 042 7594	LID, TOP (VM-EX22P/VM-EX33P)
1	636 044 1330	LID, TOP (VM-EX26P)
2	636 042 7167	BUTTON, ZOOM
3	636 042 7297	COVER LID, TOP
4	636 042 7792	SPRING, P, LID
5	636 043 2314	COMPL, CAP LENS
6	636 039 9075	BUTTON, REC
7	636 041 7878	C, SPRING, REC
8	636 040 7121	LEVER, REC
9	636 039 9341	PLATE SPRING, REC
10	636 039 9211	HOLDER, REC
11	636 043 1621	ASSY, CABINET, RIGHT (VM-EX22P)
11	636 044 1521	ASSY, CABINET, RIGHT (VM-E26P)
11	636 044 3488	ASSY, CABINET, RIGHT (VM-EX33P)
12	636 043 0266	COVER, JACK
13	636 045 8024	ASSY, HOLDER, GRIP, BELT (VM-EX22P)
13	636 045 8079	ASSY, HOLDER, GRIP, BELT (VM-EX26P/ VM-EX33P)
14	636 043 1669	ASSY, DOOR, CASSETTE (VM-EX22P/ VM-EX33P)
14	636 044 1569	ASSY, DOOR, CASSETTE (VM-EX26P)
99	411 137 3800	SCR S-TPG PAN PCS 2X5
106	411 156 3003	SCR S-TPG PAN PCS 2X6
107	412 045 1001	SPECIAL SCREW 2X5



[CABINET 2]

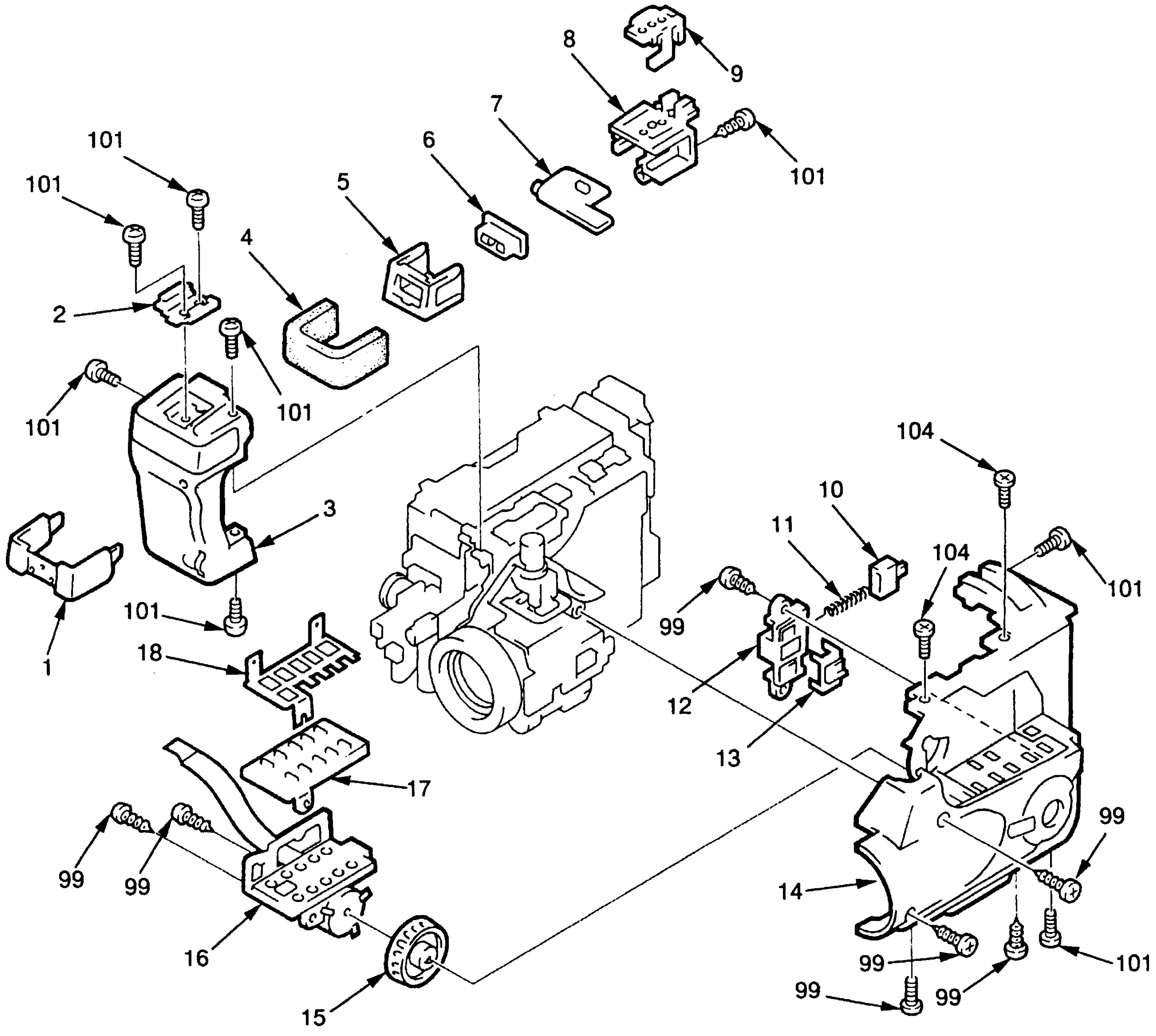
LOCATION	PARTS No.	DESCRIPTION
1	636 030 0552	KNOB, A
2	636 042 7549	HOLDER POWER
3	636 034 8110	BUTTON, POWER
4	636 030 0910	SPRING, A
5	636 042 7730	SLIDE, POWER
6	636 039 9242	HOLDER, TERMINAL
7	636 045 5870	COMPL, PWB, PW-1
8	636 043 1843	HOLDER, LED
9	636 043 2376	SHIELD CASE
10	636 045 5948	COMPL, PWB, CP-1 (VM-EX22P/ VM-EX26P)
10	636 045 5894	COMPL, PWB, CP-1 (VM-EX33P)
11	636 045 6211	COMPL, PWB, CP-2 (VM-EX22P/ VM-EX26P)
11	636 046 0102	COMPL, PWB, CP-2 (VM-EX33P)
12	636 039 9518	STAND, TRI POD
13	636 042 7457	HOLDER, PCB
14	636 042 8416	HOLDER, BRACKET AV
15	636 043 7913	FLEXIBLE, PWB, TB2 &CP1
16	636 043 1782	COMPL, PWB, TB-2
17	636 042 7471	HOLDER, MECHA, B
18	636 042 7464	HOLDER, MECHA, A
19	636 042 7600	LEVER, ZOOM
20	636 044 7363	HOLDER, EDGING (VM-EX22P/ VM-EX26P ONLY)
99	411 137 3800	SCR S-TPG PAN PCS 2X5
100	411 154 5504	SCR S-TPG PAN PCS 1.7X4
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
105	411 156 7001	SCR S-TPG PAN PCS 1.7X8
116	412 051 5703	SPECIAL SCREW 1.4X3.3

Note : The parts list for the mechanism, is included in the RS MECHANISM manual (MS 550018).


Note: VM-EX22P/ VM-EX26P ONLY (No. 20)

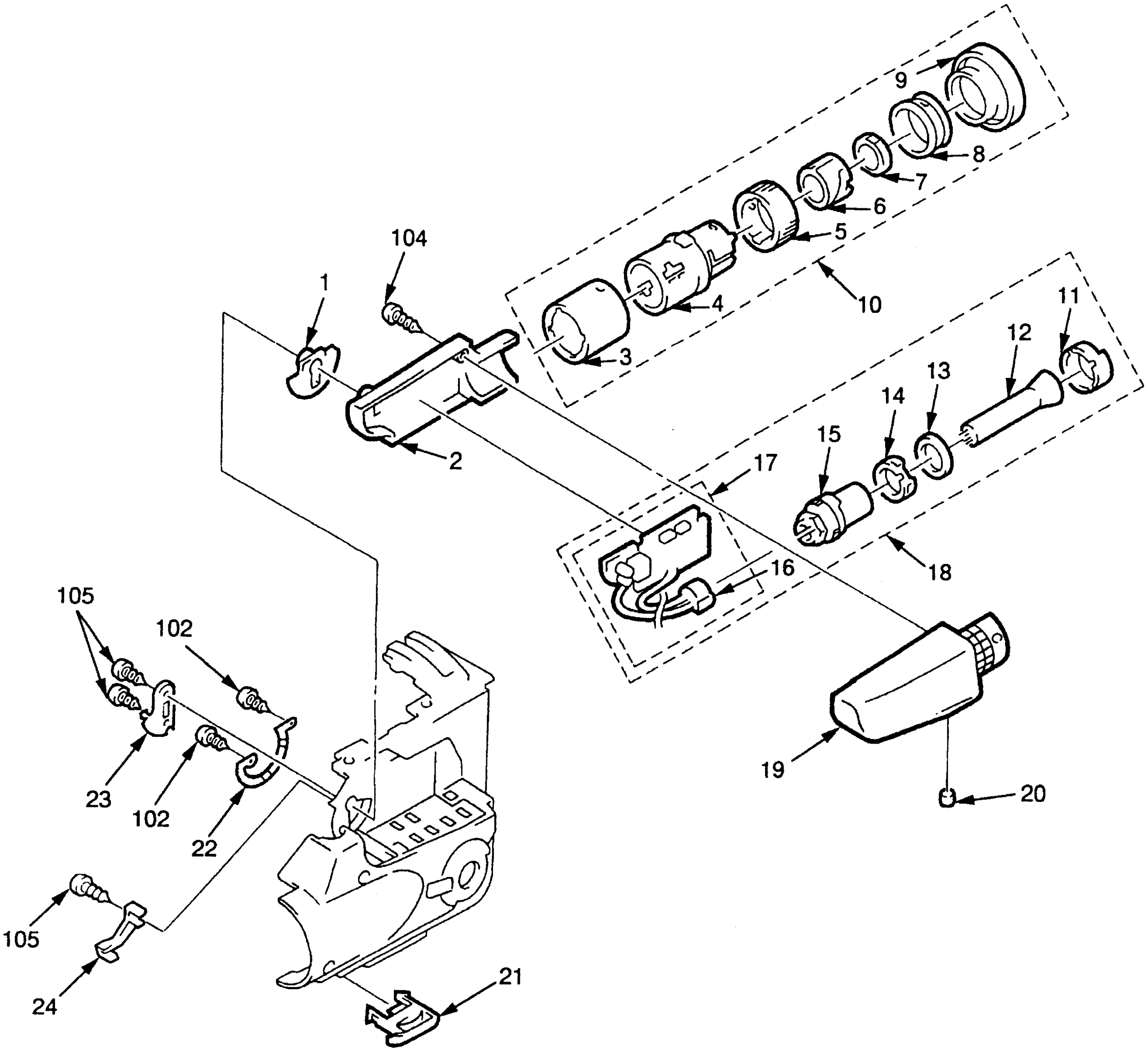
[CABINET 3]

LOCATION	PARTS No.	DESCRIPTION
1	636 042 7624	NET
2	636 040 2331	CATCHER ACC
3	636 042 7198	CABINET, FRONT(VM-EX22P)
3	636 044 1262	CABINET, FRONT(VM-EX26P)
3	636 045 5085	CABINET, FRONT(VM-EX33P)
4	636 042 7631	PAD MIC
5	636 044 0104	HOLDER, MIC A
6	636 030 1474	ASSY, MICROPHONE
7	636 045 5900	COMPL, PWB, AD-2
8	636 043 2338	ASSY, HOLDER, MIC
9	636 042 8409	HOLDER, BRACKET SHOE
10	636 042 7723	SLIDE, BATTERY
11	636 024 7994	SPRING, BATTERY
12	636 042 7532	HOLDER, BATTERY
13	636 042 7587	KNOB, BATTERY
14	636 045 8017	ASSY, CABINET, LEFT (VM-EX22P)
14	636 046 0447	ASSY, CABINET, LEFT (VM-EX26P)
14	636 045 7935	ASSY, CABINET, LEFT (VM-EX33P)
15	636 043 1553	ASSY, BUTTON DIAL
16	645 004 3024	ASSY, SWITCH
17	636 045 9045	ASSY, BUTTON
18	636 042 7365	EARTH, VCR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
104	411 159 8302	SCR S-TPG PAN PCS 1.7X6



[VIEWFINDER]

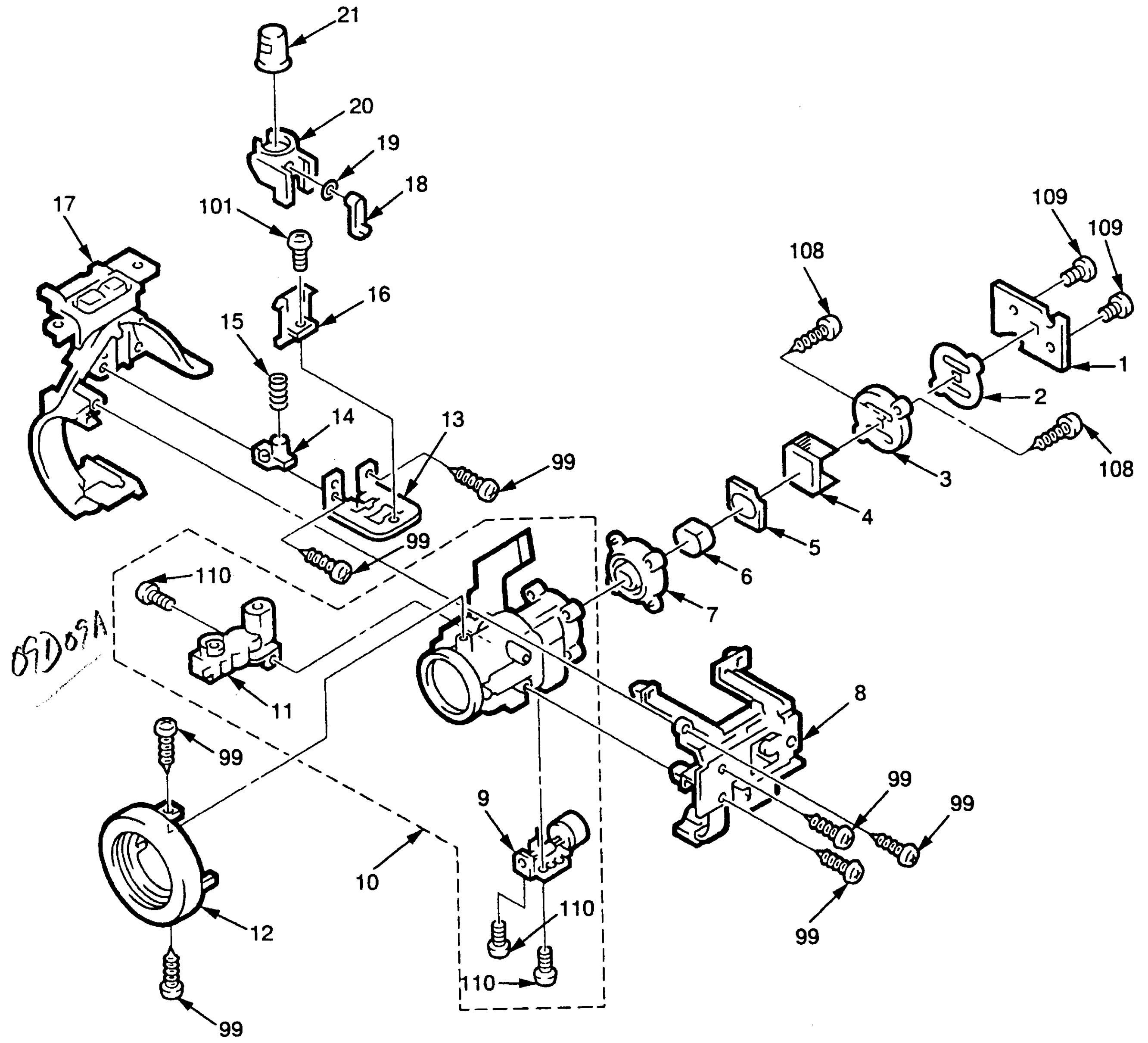
LOCATION	PARTS No.	DESCRIPTION
1	636 042 7969	SLEEVE, SPACER, VIEWFINDER
2	636 044 3877	CABINET, RIGHT, VIEWFINDER (VM-EX22P/ VM-EX33P)
2	636 044 1309	CABINET, RIGHT, VIEWFINDER (VM-EX26P)
3	636 039 8825	OUTER SLEEVE, VIEWFINDER
4	636 039 8818	INNER SLEEVE, VIEWFINDER
5	636 039 8788	KNOB, VIEWFINDER
6	636 042 9307	HOLDER, LENS, VIEWFINDER
7	636 039 8726	LENS, VIEWFINDER
OR	636 030 2969	LENS, VIEWFINDER
8	636 039 8757	COVER, SLEEVE, VIEWFINDER
OR	636 030 2860	COVER, SLEEVE, VIEWFINDER
9	636 039 8764	COVER, EYE, VIEWFINDER
10	636 043 0020	COMPL, SLIDE, SLEEVE
11	636 039 8801	HOLDER, CRT, VIEWFINDER
12 ⚠	414 007 3009	CRT M01KQM07WB
13	636 039 9440	RING, RUBBER, VIEWFINDER
14	636 034 7816	RING, VIEWFINDER
15	636 040 2843	YOKE, DEFLECTION
16	636 040 2720	HARNESS, WIRE, VF, CRT
17 ⚠	636 045 6235	COMPL, PWB, VF-1
18	636 045 6242	COMPL, VF-1
19	636 044 3860	CABINET, LEFT, VIEWFINDER (VM-EX22P/ VM-EX33P)
19	636 044 1293	CABINET, LEFT, VIEWFINDER (VM-EX26P)
20	636 043 0174	STAND, VIEWFINDER
21	636 042 7815	TRAY LITHIUM (VM-EX22P/ VM-EX33P)
21	636 044 1378	TRAY LITHIUM(VM-EX26P)
22	636 042 7808	SPRING, P, VIEWFINDER
23	636 042 8430	HOLDER, BRACKET, VF
24	636 044 2214	HOLDER, HARNESS
102	411 156 6905	SCR TPG PAN PCS 1.7X4
104	411 152 4301	SCR S-TPG PAN PCS 1.7X6
105	411 156 7001	SCR S-TPG PAN PCS 1.7X8



[CAMERA] (VM-EX22P/ VM-EX26P ONLY)

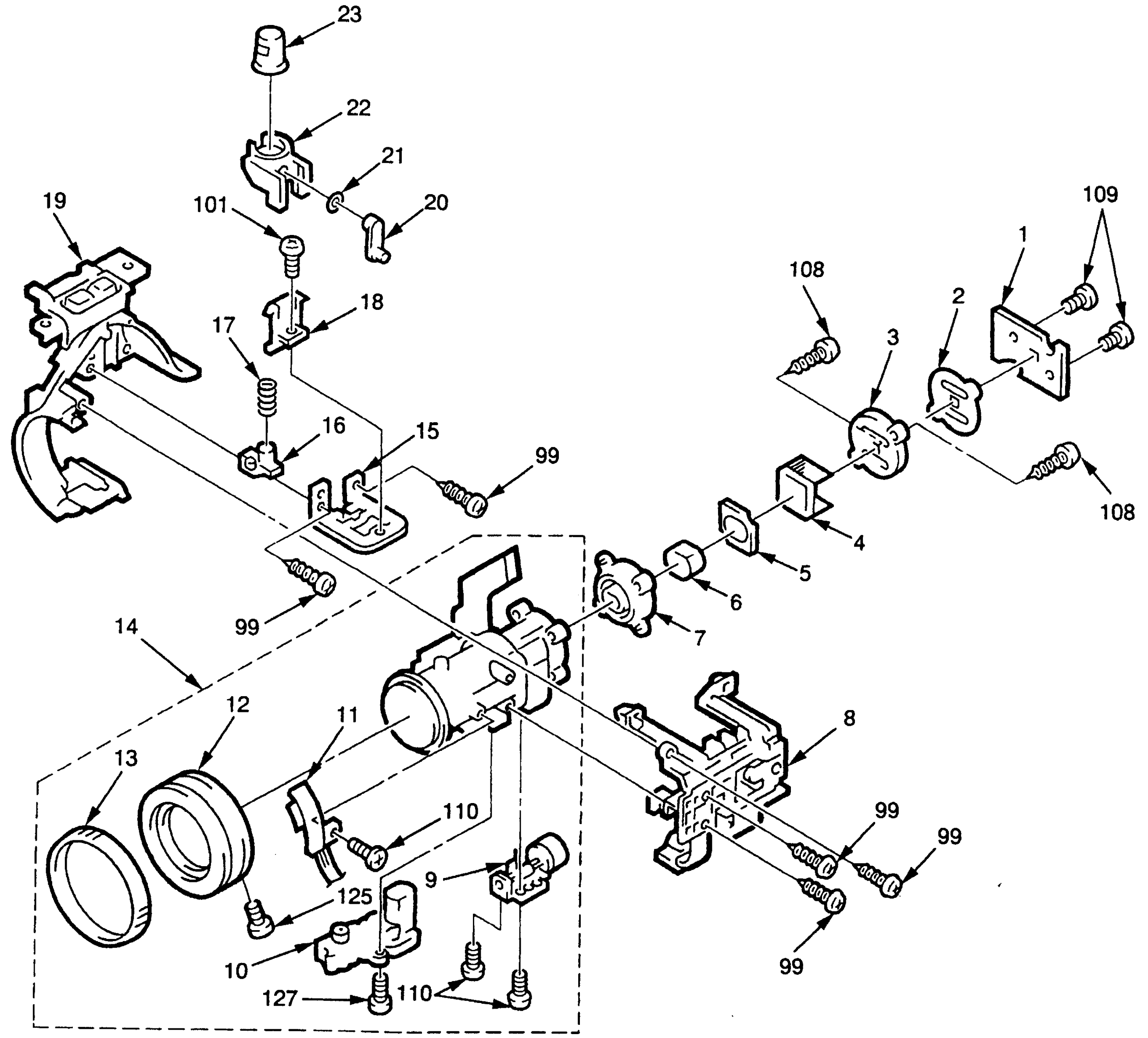
LOCATION	PARTS No.	DESCRIPTION
1	636 045 7546	COMPL, PWB, CA-2
2	636 042 8287	INSULATOR
3	636 042 8263	MOUNTNG LENS
4	409 307 5808	IC ICX055AK-6, CCD
5	636 042 8270	SPACER
6	636 035 2162	OPTICAL FILTER
OR	636 039 7071	OPTICAL FILTER
7	636 042 8256	HOLDER, CCD
8	636 042 8317	HOLDER, LENS
OR	636 044 8179	HOLDER, LENS
9	636 041 2071	MOTOR, AF
10	645 002 7178	ASSY, LENS
11	636 042 3770	MOTOR, ZOOM
12	636 042 7655	RING
13	636 042 8423	HOLDER, BRACKET, REMOCON
14	636 042 7648	REFLECTOR, REMOCON

LOCATION	PARTS No.	DESCRIPTION
15	636 042 7778	SPRING, C, REMOCON
16	636 042 7525	HOLDER, REMOCON
17	636 044 3518	ASSY, COVER, FRONT (VM-EX22P/ VM-EX33P)
17	636 044 1552	ASSY, COVER, FRONT (VM-EX26P)
18	636 042 7617	LEVER, REMOCON LOCK
19	636 045 2176	SPACER POP UP
20	636 042 7716	SLIDE, REMOCON
21	636 044 1415	ASSY, HOLDER, IR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
108	411 021 0205	SCR S-TPG BIN 2X12
109	411 002 4901	SCP PAN 2X4
110	411 153 0609	SCR S-TPG PAN PCS 1.7X4



【CAMERA】 (VM-EX33P ONLY)

LOCATION	PARTS No.	DESCRIPTION
1	636 046 0126	COMPL, PWB, CA-2
2	636 042 8287	INSULATOR
3	636 042 8263	MOUNTNG LENS
4	409 307 5808	IC ICX055AK-6, CCD
5	636 042 8270	SPACER
6	636 035 2162	OPTICAL FILTER
OR	636 039 7071	OPTICAL FILTER
7	636 042 8256	HOLDER, CCD
8	636 042 8317	HOLDER, LENS
OR	636 044 8179	HOLDER, LENS
9	645 003 2240	MOTOR, AF DC 0.4W
10	645 003 2233	MOTOR, ZOOM DC 0.13W
11	636 044 3846	ASSY, PWB, LENS
12	636 044 9190	COMPL, RING FOCUS
13	636 043 0259	COVER FOCUS
14	645 005 6055	ASSY, LENS
15	636 042 8423	HOLDER, BRACKET, REMOCON
16	636 042 7648	REFLECTOR, REMOCON
17	636 042 7778	SPRING, C, REMOCON
18	636 042 7525	HOLDER, REMOCON
19	636 044 3518	ASSY, COVER, FRONT
20	636 042 7617	LEVER, REMOCON LOCK
21	636 045 2176	SPACER POP UP
22	636 042 7716	SLIDE, REMOCON
23	636 044 1415	ASSY, HOLDER, IR
99	411 137 3800	SCR S-TPG PAN PCS 2X5
101	411 151 9406	SCR S-TPG PAN PCS 1.7X4
108	411 021 0205	SCR S-TPG BIN 2X12
109	411 002 4901	SCP PAN 2X4
110	411 153 0609	SCR S-TPG PAN PCS 1.7X4
125	411 160 1101	SCR S-TPG PAN PCS 1.7X3
127	411 160 3501	SCR S-TPG PAN PCB 1.7X5



ELECTRICAL PARTS

NOTE;

1. Materials of Capacitors and Resistors are abbreviated as follows;

Resistors	
MT-FILM	Metallized Film Resistor
MT-GLAZE	Metallized Glaze Resistor
Capacitors	
MT-POLYEST	Metallized Polyester Capacitor
MT-COMPO	Metallized Composite Capacitor
TA-SOLID	Tantalum Solid Capacitor
NP-ELECT	Non-Polarized Electrolytic Capacitor
OS-SOLID	Aluminum Solid Capacitors with Organic Semiconductive Electrolytic Capacitor
CERAMIC	Ceramic Capacitor
ELECT	Electrolytic Capacitor
POLYESTER	Polyester Capacitor

2. Tolerance of Capacitor (10pF over) and Resistor are noted with follow symbols.

C ················ ± 0.25%   D ················ ± 0.5%   G ················ ± 2%   J ················ ± 5%
K ················ ± 10%   M ················ ± 20%   Z ················+80%~ − 20%

3. Capacitors
U : µF   P : pF

4. Inductors
UH : µH   MH : mH

LOCATION	PARTS No.	DESCRIPTION
COMPL,PWB,AD-2		
COMPL.No.	636 045 5900	
(MISCELLANEOUS)		
CN294	645 002 9059	JACK,EARPHONE
COMPL,PWB,CA-2		
COMPL.No.	636 045 7546	**(VM-EX22P/VM-EX26P ONLY)**
COMPL.No.	636 046 0126	**(VM-EX33P ONLY)**
(DIODES)		
D9501	407 134 7309	DIODE MA141WA-TX
D9502	407 134 7309	DIODE MA141WA-TX
D9503	407 130 2605	DIODE MA143A-TX
OR	407 141 2106	DIODE DCJ010-TL
(TRANSISTORS)		
Q9501	405 079 6302	TR 2SC4399-5-TL
Q9502	405 102 5104	TR XN5501-TW
Q9503	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
COMPL,PWB,CP-1		
COMPL.No.	636 045 5948	**(VM-EX22P/VM-EX26P ONLY)**
(MISCELLANEOUS)		
A3351	645 001 8633	UNIT,REMOCON RECEIVER
(CONNECTOR)		
CN102	636 030 7773	CONNECTOR,19P
(TRIMMER)		
CT321	645 005 0411	TRIMMER,30PF
(DIODES)		
D1001	407 113 5609	DIODE DSH015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1401	407 106 1502	DIODE DCF015-TL
D1427	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D1430	407 142 3805	ZENER DIODE MA3082WA-TX
D1431	407 142 3805	ZENER DIODE MA3082WA-TX
D1432	407 142 3805	ZENER DIODE MA3082WA-TX
D3101	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3102	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3103	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3351	407 161 8904	LED SEL2215R
D3501	407 142 3805	ZENER DIODE MA3082WA-TX
D3503	407 142 3805	ZENER DIODE MA3082WA-TX
D3701	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3702	407 108 3801	DIODE DCG010-TL
D3702	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3751	407 142 3805	ZENER DIODE MA3082WA-TX
(INTEGRATED CIRCUITS)		
IC101	409 330 6803	IC CXA1700R-T6
IC111	409 330 6902	IC CXL1506M-T4
IC161	409 176 0003	IC CXA1203N-T4
IC191	409 170 9200	IC CXA1202R-T4
IC201	409 272 2505	IC LA7454W-P-TRM
IC321	409 330 0801	IC XLU6000FS-E1
IC323	409 244 2403	IC BA7046F-T1
IC341	409 264 2209	IC S-8420BF-T1
IC351	410 200 2009	IC M37773M4A104HP
IC352	409 142 2000	IC LA6358NM-T1
OR	409 220 6906	IC LM358D-R
IC353	409 155 4305	IC BU4066BF-T1
OR	409 059 2704	IC UPD4066BG-T1
OR	409 333 2505	IC BU4066BCF-T1
IC361	409 303 2108	IC LB1881MMT-T1
OR	409 274 5900	IC LB1881M-T1
IC371	409 018 4008	IC LA6393M-T1
OR	409 168 2503	IC BA10393F-T1
IC375	409 244 2502	IC TL1596DB-T1
IC376	409 307 1008	IC M50721-166FP
IC381	409 298 2909	IC LB1885M-A-T1
IC391	409 330 0702	IC MPC1720MR1
(COILS)		
L0701	636 027 8592	COIL,INDUCTOR 100UHJ
L0703	636 027 8592	COIL,INDUCTOR 100UHJ
L0704	636 003 2477	HF CHOKE,39UHJ
L0705	636 003 2460	HF CHOKE,33UHJ
L1101	636 003 5379	CORE
L1103	636 038 4729	COIL,INDUCTOR 10UHJ
L1104	636 038 5870	COIL,INDUCTOR 33UHJ
L1105	636 028 1813	COIL,INDUCTOR 4.7UHJ
L1106	636 038 5870	COIL,INDUCTOR 33UHJ
L1303	636 027 8806	COIL,INDUCTOR 68UHJ
L1304	636 027 8639	COIL,INDUCTOR 150UHJ
L1305	636 028 1844	COIL,INDUCTOR 8.2UHJ
L1306	636 027 8585	COIL,INDUCTOR 10UHJ
L1307	636 003 2460	HF CHOKE,33UHJ
L1308	636 027 8585	COIL,INDUCTOR 10UHJ
L1309	636 003 2460	HF CHOKE,33UHJ
L1310	636 040 1006	COIL,INDUCTOR 330UHHJ
L1311	636 028 1813	COIL,INDUCTOR 4.7UHJ
L1312	636 003 2552	HF CHOKE,180UHJ
L1314	636 040 1006	COIL,INDUCTOR 330UHJ
L1315	636 003 2460	HF CHOKE,33UHJ
L1316	636 038 5993	COIL,INDUCTOR 470UHJ
L1601	636 027 8585	COIL,INDUCTOR 10UHJ
L1801	636 027 8585	COIL,INDUCTOR 10UHJ
L1901	636 002 8821	RF CHOKE,10UHK
L3201	636 003 2484	HF CHOKE,47UHJ
L3501	636 019 8746	COIL,INDUCTOR 47UHK
(TRANSISTORS)		
Q0701	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106

LOCATION	PARTS No.	DESCRIPTION
Q0701	405 102 5005	TR UN5213-TX
Q0702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0703	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0704	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0705	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0706	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0707	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0708	405 091 4706	TR DTC144WU-T106
Q0709	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0710	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0711	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0712	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0713	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0714	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0717	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0718	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1001	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1002	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1004	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1007	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1008	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1011	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1012	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1014	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1015	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1016	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106

LOCATION	PARTS No.	DESCRIPTION
Q1016	405 102 5500	TR 2SB1218A-R-TX
Q1101	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1104	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1105	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1106	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1107	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1301	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1302	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1303	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1306	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1307	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1309	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1310	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1311	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1312	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1316	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1318	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1319	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1320	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1324	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1328	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1403	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1404	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1405	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1406	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX

LOCATION	PARTS No.	DESCRIPTION
Q1407	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1409	405 008 7707	TR 2SB815-B7
OR	405 008 7509	TR 2SB815-B6
Q1412	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1414	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1415	405 096 4404	TR DTC144TU-T106
OR	405 103 1006	TR UN5210-R-TX
Q1422	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q1465	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1466	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1602	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1603	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1604	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1605	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1606	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1801	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1802	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1901	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1902	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2030	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2031	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q2501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q2901	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2902	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3201	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3202	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3301	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3351	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3352	405 078 6105	TR 2SA1677-TL
OR	405 096 1205	TR DTA124EU-T106
OR	405 119 1007	TR UN5112-TX
Q3353	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3354	405 006 8904	TR 2SB1121-T-TD

LOCATION	PARTS No.	DESCRIPTION
Q3355	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3356	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q3502	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3503	405 060 7509	TR FMG2-T99
OR	405 120 6701	TR XN1213-TW
Q3571	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3701	405 103 6209	TR 2SK1468-TL
Q3801	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3802	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3901	405 047 8109	TR 2SB1202-S-TL

(RESISTOR PACKS)

RB311	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB312	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB313	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB314	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB315	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB316	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB321	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB331	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB332	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB351	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB353	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB354	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB355	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB356	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB357	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB371	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2

(SWITCHES)

S3101	645 001 9869	SWITCH,PUSH 1P-2TX1
S3102	645 001 9869	SWITCH,PUSH 1P-2TX1
S3103	636 040 8456	SW,PUSH
S3104	636 040 8456	SW,PUSH

(VARIABLE RESISTORS)

VR101	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR102	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR103	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR104	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR108	636 019 8050	SVR 470

LOCATION	PARTS No.	DESCRIPTION
VR108	636 039 8610	VR,SEMI 470B
OR	645 000 0157	VR,SEMI 470S
OR	636 036 2338	VR,SEMI 470B
VR111	636 019 8067	SVR 4.7K
OR	636 039 8627	VR,SEMI 4.7KB
OR	645 000 0218	VR,SEMI 4.7KS
OR	636 036 2345	VR,SEMI 4.7KB
VR141	645 002 4672	VR,ROTARY 10KBX2
VR201	636 019 7909	SVR 10K
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS
OR	636 036 2109	VR,SEMI 10KB
VR351	636 019 7916	SVR 100K
OR	636 039 8474	VR,SEMI 100KB
OR	645 000 0294	VR,SEMI 100KS
OR	636 036 2116	VR,SEMI 100KB
(CRYSTAL DEVICES)		
X1001	636 040 0931	CRYSTAL 4.433619MHZ
OR	636 028 4340	CRYSTAL 4.433619MHZ
X3501	645 004 8876	OSC,CRYSTAL 17.578125MHZ
OR	645 004 8883	OSC,CRYSTAL 17.578125MHZ
X3502	636 040 1129	OSC,CRYSTAL 32.768KHZ
X3701	645 004 8562	OSC,CERAMIC 2.00MHZ

COMPL,PWB,CP-2(VM-EX22P/VM-EX26P ONLY)
COMPL.No. 636 045 6211

LOCATION	PARTS No.	DESCRIPTION
(CONNECTOR)		
CN931	636 034 4846	CONNECTOR,24P
(TRIMMERS)		
CT901	645 005 0404	TRIMMER,20PF
CT902	645 005 0411	TRIMMER,30PF
(DIODES)		
D9001	407 130 2605	DIODE MA143A-TX
D9021	407 134 7309	DIODE MA141WA-TX
D9301	407 134 7200	DIODE MA141K-TX
D9353	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9354	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9355	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
(INTEGRATED CIRCUITS)		
IC911	409 245 4208	IC MSM6524GS-VKR2
IC912	409 223 9508	IC CXA1392R-T4
IC913	409 307 6102	IC CXL1518N-T4
IC914	409 223 9409	IC CXA1391R-T6
IC915	409 183 2007	IC CXD1159Q-T4
IC916	409 275 6906	IC CXD1257AR-T6
IC917	409 281 5306	IC CXA1390AR-T4
IC918	409 212 8406	IC CXD1250N-T4
IC931	409 322 5708	IC LC98000A-920
IC932	410 212 1205	IC MB89677A-104
IC933	409 307 5600	IC MPC17A85VM-EL
IC934	409 155 7306	IC TC4S71F(TE85L)
OR	409 184 8008	IC SC14S71FEL
IC935	409 074 1904	IC NJM3414M-T1
IC936	409 142 2000	IC LA6358NM-TP-T1
(COILS)		
L9021	636 003 2415	HF CHOKE,12UHJ
OR	636 027 8608	COIL,INDUCTOR 12UHJ
L9190	636 027 8738	COIL,INDUCTOR 33UHJ
L9191	636 027 8806	COIL,INDUCTOR 68UHJ
L9192	636 027 8738	COIL,INDUCTOR 33UHJ
L9301	636 034 9797	COIL,INDUCTOR 10UHK
L9302	636 035 3589	COIL,INDUCTOR 22UHK
L9303	636 035 4227	COIL,INDUCTOR 330UHK
L9304	636 035 4258	COIL,INDUCTOR 56UHK
L9305	636 035 4166	COIL,INDUCTOR 18UHK
(TRANSISTORS)		
Q9021	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX

LOCATION	PARTS No.	DESCRIPTION
Q9022	405 102 5104	TR XN5501-TW
Q9023	405 102 5500	TR 2SB1218A-R-TX
Q9024	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9161	405 065 5708	TR FMS1-T99
Q9162	405 102 5500	TR 2SB1218A-R-TX
Q9165	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9166	405 102 5500	TR 2SB1218A-R-TX
Q9190	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q9301	405 113 9702	TR XN4401-(TW)
OR	405 082 8706	TR IMT1-T109
Q9302	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9304	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9305	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9306	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9311	405 074 0602	TR IMZ1-109
Q9313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9315	405 123 3707	TR DTC115EU-T106
Q9316	405 076 5902	TR FMA5-T99
Q9317	405 079 2007	TR FMG8-T99
Q9320	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9322	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9331	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9332	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
(RESISTOR PACKS)		
RB901	645 001 3386	R-NETWORK,470X4 0.063W
RB902	645 001 6707	R-NETWORK,470X2 0.063W
RB903	645 001 3195	R-NETWORK,10KX4 0.063W
RB904	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 037 5987	CHIP R-NETWORK,10KX2
(SWITCHES)		
S9001	645 001 9869	SWITCH,PUSH 1P-2TX1
S9002	645 001 9869	SWITCH,PUSH 1P-2TX1
S9003	645 001 9869	SWITCH,PUSH 1P-2TX1
S9004	645 001 9869	SWITCH,PUSH 1P-2TX1
S9005	636 040 8456	SW,PUSH
(MISCELLANEOUS)		
T9020	645 002 3958	DELAY LINE
(VARACTOR DIODE)		
VC902	407 099 2906	VARACTOR DI 1SV200-11TLC
(VARIABLE RESISTORS)		
VR931	636 019 7916	SVR 100K
VR932	636 019 7916	SVR 100K
(CRYSTAL DEVICES)		
X9130	636 036 6862	CRYSTAL,17MHZ
X9150	636 040 4137	CRISTAL,28.375MHZ
OR	636 040 4151	CRISTAL,28.375MHZ

COMPL,PWB,PW-1
COMPL.No. 636 045 5870

LOCATION	PARTS No.	DESCRIPTION
(MISCELLANEOUSES)		
A3001 ⚠	645 004 9620	UNIT,DC/DC CONVERTOR
CN304	636 039 9358	PLATE SPRING,BATTERY
CN305	636 039 9358	PLATE SPRING,BATTERY
CN306	636 040 0986	JACK,DC
CN307	636 035 3541	JACK,LANC
(FUSES)		
F3001 ⚠	636 040 8463	PROTECTOR, 3.0A, 125V

LOCATION	PARTS No.	DESCRIPTION
F3003 ⚠	645 002 1367	PROTECTOR,IC 1.5A 125V
(SWITCHES)		
S3001	645 000 1390	SWITCH,SLIDE 1P-2TX1
S3002	636 025 0543	SW,PUSH
S3003	645 000 1406	SWITCH,SLIDE 1P-3TX1
COMPL,PWB,TB-2		
COMPL.No. 636 043 1782		
(MISCELLANEOUS)		
CN851	645 002 4719	JACK,RCA-2
COMPL,PWB,VF-1		
COMPL.No. 636 045 6235		
(CAPACITORS)		
C9714 ⚠	403 076 9302	CERAMIC 2200P Z 1K
C9715 ⚠	403 175 2600	CERAMIC 1000P Z 1K
(DIODES)		
D9701	407 069 4909	DIODE DSB010
D9702	407 066 8207	DIODE SB02-09CP
(INTEGRATED CIRCUIT)		
IC971	409 283 7100	IC BA7149F-T1
(COILS)		
L9701	613 015 3623	COIL,INDUCTOR 100UHK
L9702	636 040 2850	COIL,LINEARITY
(TRANSISTORS)		
Q9701	405 115 9007	TR 2SD1616-U
Q9702	405 043 8905	TR 2SA1257-G5
(TRANS)		
T9701 ⚠	636 040 2836	TRANS,FLYBACK
(VARIABLE RESISTORS)		
VR971	645 002 4849	VR,SEMI 50K
VR972	645 002 4832	VR,SEMI 200
VR974	636 040 2867	VR,SEMI 5.6MB
VR975	636 040 2874	VR,SEMI 2.2MB
COMPL,PWB,CP-1(VM-EX33P ONLY)		
COMPL.No. 636 045 5894		
(MISCELLANEOUS)		
A3351	645 001 8633	UNIT,REMOCON RECEIVER
(CONNECTOR)		
CN102	636 030 7773	CONNECTOR,19P
(TRIMMER)		
CT321	645 005 0411	TRIMMER,30PF
(DIODES)		
D1001	407 113 5609	DIODE DSH015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1401	407 106 1502	DIODE DCF015-TL
D1430	407 142 3805	ZENER DIODE MA3082WA-TX
D1431	407 142 3805	ZENER DIODE MA3082WA-TX
D1432	407 142 3805	ZENER DIODE MA3082WA-TX
D3101	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3102	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3103	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3351	407 161 8904	LED SEL2215R
D3501	407 142 3805	ZENER DIODE MA3082WA-TX
D3503	407 142 3805	ZENER DIODE MA3082WA-TX
D3701	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3702	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D3751	407 142 3805	ZENER DIODE MA3082WA-TX

LOCATION	PARTS No.	DESCRIPTION
(INTEGRATED CIRCUITS)		
IC101	409 330 6803	IC CXA1700R-T6
IC111	409 330 6902	IC CXL1506M-T4
IC161	409 176 0003	IC CXA1203N-T4
IC191	409 170 9200	IC CXA1202R-T4
IC201	409 272 2505	IC LA7454W-P-TRM
IC321	409 330 0801	IC XLU6000FS-E1
IC323	409 244 2403	IC BA7046F-T1
IC341	409 264 2209	IC S-8420BF-T1
IC351	410 200 2009	IC M37773M4A104HP
IC352	409 142 2000	IC LA6358NM-T1
OR	409 220 6906	IC LM358D-R
IC353	409 155 4305	IC BU4066BF-T1
OR	409 059 2704	IC UPD4066BG-T1
OR	409 333 2505	IC BU4066BCF-T1
IC361	409 303 2108	IC LB1881MMT-T1
OR	409 274 5900	IC LB1881M-T1
IC371	409 018 4008	IC LA6393M-T1
OR	409 168 2503	IC BA10393F-T1
IC375	409 244 2502	IC TL1596DB-T1
IC376	409 307 1008	IC M50721-166FP
IC381	409 298 2909	IC LB1885M-A-T1
IC391	409 330 0702	IC MPC1720MR1
(COILS)		
L0701	636 027 8592	COIL,INDUCTOR 100UHJ
L0703	636 027 8592	COIL,INDUCTOR 100UHJ
L0704	636 003 2477	HF CHOKE,39UHJ
L0705	636 003 2460	HF CHOKE,33UHJ
L1101	636 003 5379	CORE
L1103	636 038 4729	COIL,INDUCTOR 10UHJ
L1104	636 038 5870	COIL,INDUCTOR 33UHJ
L1105	636 028 1813	COIL,INDUCTOR 4.7UHJ
L1106	636 038 5870	COIL,INDUCTOR 33UHJ
L1303	636 027 8806	COIL,INDUCTOR 68UHJ
L1304	636 027 8639	COIL,INDUCTOR 150UHJ
L1305	636 028 1844	COIL,INDUCTOR 8.2UHJ
L1306	636 027 8585	COIL,INDUCTOR 10UHJ
L1307	636 003 2460	HF CHOKE,33UHJ
L1308	636 027 8585	COIL,INDUCTOR 10UHJ
L1309	636 003 2460	HF CHOKE,33UHJ
L1310	636 040 1006	COIL,INDUCTOR 330UHJ
L1311	636 028 1813	COIL,INDUCTOR 4.7UHJ
L1312	636 003 2552	HF CHOKE,180UHJ
L1314	636 040 1006	COIL,INDUCTOR 330UHJ
L1315	636 003 2460	HF CHOKE,33UHJ
L1316	636 038 5993	COIL,INDUCTOR 470UHJ
L1601	636 027 8585	COIL,INDUCTOR 10UHJ
L1801	636 027 8585	COIL,INDUCTOR 10UHJ
L1901	636 002 8821	RF CHOKE,10UHK
L3201	636 003 2484	HF CHOKE,47UHJ
L3501	636 019 8746	COIL,INDUCTOR 47UHK
(TRANSISTORS)		
Q0701	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q0702	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0703	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0704	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0705	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0706	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0707	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0708	405 091 4706	TR DTC144WU-T106
Q0709	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0710	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX

LOCATION	PARTS No.	DESCRIPTION
Q0711	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0712	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0713	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0714	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q0717	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q0718	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1001	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1002	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1004	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1007	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1008	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1011	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1012	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1014	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1015	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1016	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1101	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1104	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1105	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1106	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1107	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1301	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1302	405 077 3402	TR 2SC4211-6-TL
Q1302	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1303	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1306	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1307	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1309	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1310	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1311	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1312	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q1313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1316	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1318	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1319	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1320	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1324	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1328	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1403	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1404	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1405	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1406	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1407	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1409	405 008 7707	TR 2SB815-B7
OR	405 008 7509	TR 2SB815-B6
Q1412	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1414	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1415	405 096 4404	TR DTC144TU-T106
OR	405 103 1006	TR UN5210-R-TX
Q1422	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q1465	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1466	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1602	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106

LOCATION	PARTS No.	DESCRIPTION
Q1602	405 102 3605	TR UN5113-TX
Q1603	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1604	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q1605	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1606	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1801	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1802	405 077 2207	TR 2SA1622-6-TL
OR	405 092 4200	TR 2SA1576-R-T106
OR	405 102 5500	TR 2SB1218A-R-TX
Q1901	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1902	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2030	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q2031	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q2501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q2901	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q2902	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3201	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3202	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3301	405 083 0501	TR FMG9-T99
OR	405 120 6602	TR XN1211-TW
Q3351	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3352	405 078 6105	TR 2SA1677-TL
OR	405 096 1205	TR DTA124EU-T106
OR	405 119 1007	TR UN5112-TX
Q3353	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3354	405 006 8904	TR 2SB1121-T-TD
Q3355	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3356	405 078 4300	TR 2SC4398-TL
OR	405 096 2707	TR DTC114EU-T106
Q3501	405 102 6705	TR 2SA1745-7-TL
OR	405 102 8303	TR 2SA1745-6-TL
Q3502	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3503	405 060 7509	TR FMG2-T99
OR	405 120 6701	TR XN1213-TW
Q3571	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3701	405 103 6209	TR 2SK1468-TL
Q3801	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q3802	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q3901	405 047 8109	TR 2SB1202-S-TL
(RESISTOR PACKS)		
RB311	645 001 6981	R-NETWORK,100KX2 0.063W
RB311	636 036 0259	CHIP R-NETWORK,100KX2
RB312	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB313	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB314	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB315	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB316	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB321	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB331	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB332	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB351	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB353	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB354	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB355	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB356	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
RB357	645 001 6981	R-NETWORK,100KX2 0.063W
OR	636 036 0259	CHIP R-NETWORK,100KX2
RB371	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 036 0242	CHIP R-NETWORK,10KX2
(SWITCHES)		
S3101	645 001 9869	SWITCH,PUSH 1P-2TX1
S3102	645 001 9869	SWITCH,PUSH 1P-2TX1
S3103	636 040 8456	SW,PUSH
S3104	636 040 8456	SW,PUSH
(VARIABLE RESISTORS)		
VR101	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR102	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR103	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR104	636 019 8074	SVR 47K
OR	636 039 8634	VR,SEMI 47KB
OR	645 000 0270	VR,SEMI 47KS
OR	636 036 2352	VR,SEMI 47KB
VR108	636 019 8050	SVR 470
OR	636 039 8610	VR,SEMI 470B
OR	645 000 0157	VR,SEMI 470S
OR	636 036 2338	VR,SEMI 470B
VR111	636 019 8067	SVR 4.7K
OR	636 039 8627	VR,SEMI 4.7KB
OR	645 000 0218	VR,SEMI 4.7KS
OR	636 036 2345	VR,SEMI 4.7KB
VR201	636 019 7909	SVR 10K
OR	636 039 8467	VR,SEMI 10KB
OR	645 000 0232	VR,SEMI 10KS
OR	636 036 2109	VR,SEMI 10KB
VR351	636 019 7916	SVR 100K
OR	636 039 8474	VR,SEMI 100KB
OR	645 000 0294	VR,SEMI 100KS
OR	636 036 2116	VR,SEMI 100KB
(CRYSTAL DEVICES)		
X1001	636 040 0931	CRYSTAL 4.433619MHZ
OR	636 028 4340	CRYSTAL 4.433619MHZ
X3501	645 004 8876	OSC,CRYSTAL 17.578125MHZ
OR	645 004 8883	OSC,CRYSTAL 17.578125MHZ
X3502	636 040 1129	OSC,CRYSTAL 32.768KHZ
X3701	645 004 8562	OSC,CERAMIC 2.00MHZ

COMPL,PWB,CP-2(VM-EX33P ONLY)
COMPL.No. 636 046 0102

LOCATION	PARTS No.	DESCRIPTION
(CONNECTOR)		
CN931	636 034 4846	CONNECTOR,24P
(TRIMMERS)		
CT901	645 005 0404	TRIMMER,20PF
CT902	645 005 0411	TRIMMER,30PF
(DIODES)		
D9001	407 130 2605	DIODE MA143A-TX
D9021	407 134 7309	DIODE MA141WA-TX
D9301	407 134 7200	DIODE MA141K-TX
D9353	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9354	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
D9355	407 108 3801	DIODE DCG010-TL
OR	407 130 4401	DIODE DAN202U-T106
OR	407 134 7408	DIODE MA141WK-TX
(INTEGRATED CIRCUITS)		
IC911	409 245 4208	IC MSM6524GS-VKR2
IC912	409 223 9508	IC CXA1392R-T4
IC913	409 307 6102	IC CXL1518N-T4
IC914	409 223 9409	IC CXA1391R-T6
IC915	409 183 2007	IC CXD1159Q-T4
IC916	409 275 6906	IC CXD1257AR-T6
IC917	409 281 5306	IC CXA1390AR-T4
IC918	409 212 8406	IC CXD1250N-T4
IC931	409 322 5708	IC LC98000A-920
IC932	409 330 2409	IC MB89P677A
IC933	409 307 5600	IC MPC17A85VM-EL
IC934	409 155 7306	IC TC4S71F(TE85L)
OR	409 184 8008	IC SC14S71FEL
IC935	409 074 1904	IC NJM3414M-T1
IC936	409 142 2000	IC LA6358NM-T1
IC941	409 155 7801	IC TC4S584F(TE85L)
OR	409 248 2409	IC SC14S584FEL
IC942	409 155 7801	IC TC4S584F(TE85L)
OR	409 248 2409	IC SC14S584FEL
(COILS)		
L9021	636 003 2415	HF CHOKE,12UHK
OR	636 027 8608	COIL,INDUCTOR 12UHJ
L9190	636 027 8738	COIL,INDUCTOR 33UHJ
L9191	636 027 8806	COIL,INDUCTOR 68UHJ
L9192	636 027 8738	COIL,INDUCTOR 33UHJ
L9301	636 034 9797	COIL,INDUCTOR 10UHK
L9302	636 035 3589	COIL,INDUCTOR 22UHK
L9303	636 035 4227	COIL,INDUCTOR 330UHK
L9304	636 035 4258	COIL,INDUCTOR 56UHK
L9305	636 035 4166	COIL,INDUCTOR 18UHK
(TRANSISTORS)		
Q9021	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q9022	405 102 5104	TR XN5501-TW
Q9023	405 102 5500	TR 2SB1218A-R-TX
Q9024	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9161	405 065 5708	TR FMS1-T99
Q9162	405 102 5500	TR 2SB1218A-R-TX
Q9165	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9166	405 102 5500	TR 2SB1218A-R-TX
Q9190	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
OR	405 102 3605	TR UN5113-TX
Q9301	405 113 9702	TR XN4401-(TW)
OR	405 082 8706	TR IMT1-T109
Q9302	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9304	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109

LOCATION	PARTS No.	DESCRIPTION
Q9305	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9306	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9311	405 074 0602	TR IMZ1-109
Q9313	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9315	405 123 3707	TR DTC115EU-T106
Q9316	405 076 5902	TR FMA5-T99
Q9317	405 079 2007	TR FMG8-T99
Q9320	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
OR	405 102 5609	TR 2SD1819A-R-TX
Q9322	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9331	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
Q9332	405 107 1101	TR XN4501-(TW)
OR	405 079 2809	TR IMX1-T109
(RESISTOR PACKS)		
RB901	645 001 3386	R-NETWORK,470X4 0.063W
RB902	645 001 6707	R-NETWORK,470X2 0.063W
RB903	645 001 3195	R-NETWORK,10KX4 0.063W
RB904	645 001 6868	R-NETWORK,10KX2 0.063W
OR	636 037 5987	CHIP R-NETWORK,10KX2
(SWITCHES)		
S9001	645 001 9869	SWITCH,PUSH 1P-2TX1
S9002	645 001 9869	SWITCH,PUSH 1P-2TX1
S9003	645 001 9869	SWITCH,PUSH 1P-2TX1
S9004	645 001 9869	SWITCH,PUSH 1P-2TX1
S9005	636 040 8456	SW,PUSH
(MISCELLANEOUS)		
T9020	645 002 3958	DELAY LINE
(VARACTOR DIODE)		
VC902	407 099 2906	VARACTOR DI 1SV200-11TLC
(VARIABLE RESISTOR)		
VR931	636 019 7916	SVR 100K
VR932	636 019 7916	SVR 100K
(CRYSTAL DEVICES)		
X9130	636 036 6862	CRYSTAL,17MHZ
X9150	636 040 4137	CRYSTAL,28.375MHZ
OR	636 040 4151	CRYSTAL,28.375MHZ

ELECTRICAL PARTS (The general parts)

LOCATION	PARTS No.	DESCRIPTION	
COMPL,PWB,AD-2			
COMPL.No.636 045 5900			
(CAPACITORS)			
C2931	403 130 3802	K	25V
OR	403 221 3100	K	25V
C2936	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2937	403 067 9809	K	25V
OR	403 159 1209	K	25V
(RESISTORS)			
R2931	401 105 1006	JA	1/16W
R2932	401 105 0504	JA	1/16W
R2940	401 105 0504	JA	1/16W
R2941	401 105 7404	JA	1/16W
R2942	401 105 2904	JA	1/16W
COMPL,PWB,CA-2			
COMPL.No.636 045 7546			
(VM-EX22P/VM-EX26P ONLY)			
COMPL.No.636 046 0126			
(VM-EX33P ONLY)			
(CAPACITORS)			
C9501	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9502	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9503	403 192 3307	M	25V
C9504	403 175 4505	M	6.3V
OR	403 279 0502	M	6.3V
C9505	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9506	403 167 2205	M	35V
OR	403 093 0306	M	35V
C9507	403 162 6208	M	50V
OR	403 279 0304	M	50V
C9509	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9510	403 162 6208	M	50V
OR	403 279 0304	M	50V
C9511	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9512	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9513	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
(RESISTORS)			
R9501	401 105 7503	JA	1/16W
R9502	401 105 7305	JA	1/16W
R9504	401 105 4601	JA	1/16W
R9505	401 105 2201	JA	1/16W
R9506	401 105 3406	JA	1/16W
R9507	401 105 3505	JA	1/16W
R9508	401 105 0702	JA	1/16W
R9509	401 105 8005	JA	1/16W
R9510	401 105 0603	JA	1/16W
R9511	401 105 8203	JA	1/16W
R9512	401 105 0603	JA	1/16W
COMPL,PWB,CP-1			
COMPL.No.636 045 5948			
(VM-EX22P/VM-EX26P ONLY)			
(CAPACITORS)			
C0701	403 193 7601	M	6.3V
OR	403 038 6707	M	6.3V
C0703	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C0705	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C0706	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C0708	403 162 3900	M	4V
OR	403 279 0205	M	4V
C0709	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0710	403 162 3900	M	4V
OR	403 279 0205	M	4V
C0711	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C0714	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0715	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C0716	403 014 9203	J	50V
OR	403 116 0009	J	50V
OR	403 108 9102	J	50V
C0717	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C0718	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C0719	403 022 8205	J	50V
OR	403 023 0802	J	50V
OR	403 023 0109	J	50V
C0720	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C0721	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C0724	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1001	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1002	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1004	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1005	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1006	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1007	403 167 0607	M	16V
OR	403 091 0407	M	16V
C1008	403 167 0201	M	6.3V
OR	403 114 5600	M	6.3V
C1009	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1010	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1011	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1012	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1013	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1014	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1015	403 236 0200	Z	25V
C1016	403 024 7107	J	50V
OR	403 228 9907	J	50V
OR	403 153 2400	J	50V
C1017	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1020	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1023	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1027	403 207 0307	Z	16V
C1027	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1028	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1029	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1030	403 167 0805	M	20V
OR	403 091 6706	M	20V
C1031	403 075 0706	K	50V
OR	403 075 1208	K	50V
OR	403 075 1109	K	50V
C1032	403 167 0607	M	16V
OR	403 091 0407	M	16V
C1033	403 236 0200	Z	25V
C1034	403 212 1603	Z	25V
OR	403 278 9803	Z	25V
OR	403 176 3309	Z	25V
C1035	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1037	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1038	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1039	403 193 7601	M	6.3V
OR	403 038 6707	M	6.3V
C1040	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1041	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1042	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1043	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1044	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1046	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1050	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1051	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1104	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1105	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1106	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1107	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1108	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1109	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1111	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1112	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1113	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1114	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1115	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1116	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1117	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1118	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1119	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1120	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1121	403 024 2102	J	50V
OR	403 024 4205	J	50V
OR	403 024 3505	J	50V
C1122	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1123	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1124	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C1302	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1304	403 014 9203	J	50V
OR	403 116 0009	J	50V
OR	403 108 9102	J	50V
C1305	403 024 2102	J	50V
OR	403 024 4205	J	50V
OR	403 024 3505	J	50V
C1306	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1307	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1308	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1310	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1311	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1312	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1313	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C1314	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1315	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1317	403 014 3409	J	50V
OR	403 014 5403	J	50V
OR	403 014 4802	J	50V
C1318	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1319	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1320	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1321	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V

LOCATION	PARTS No.	DESCRIPTION	
C1322	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1323	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1324	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1325	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1327	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1328	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1329	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1332	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1333	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C1410	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1411	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1412	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1414	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1421	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1603	403 010 8507	J	50V
OR	403 011 0708	J	50V
OR	403 011 0104	J	50V
C1604	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1605	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1607	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1608	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1610	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C1611	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1612	403 167 0003	M	4V
OR	403 089 6206	M	4V
C1613	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1614	403 010 5001	J	50V
OR	403 278 9902	J	50V
OR	403 153 2202	J	50V
C1615	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1618	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1801	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1802	403 013 3004	J	50V

LOCATION	PARTS No.	DESCRIPTION	
C1802	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1803	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1804	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1902	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1903	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1904	403 073 9107	K	50V
OR	403 116 7107	K	50V
C1905	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1906	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C1907	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1908	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1910	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1913	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1914	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1916	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1917	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1918	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1919	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1920	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1921	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1922	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1923	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1924	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1925	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1927	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1928	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1929	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1930	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1931	403 027 1201	C	50V
OR	403 027 3700	C	50V

LOCATION	PARTS No.	DESCRIPTION	
C1931	403 027 2901	C	50V
C1932	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1933	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1935	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C1936	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C2001	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2002	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C2003	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2005	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2010	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2011	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C2014	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2015	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2016	403 279 0304	M	50V
OR	403 258 4903	M	50V
C2017	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2018	403 018 7502	J	50V
OR	403 018 8301	J	50V
C2019	403 277 5301	M	25V
OR	403 256 0600	M	25V
C2022	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2023	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2025	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2026	403 277 5301	M	25V
OR	403 256 0600	M	25V
C2028	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2029	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2030	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2031	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2801	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C2901	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C2902	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2904	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C2905	403 248 9703	M	16V
OR	403 268 6508	M	16V
C3201	403 069 1702	K	50V
OR	403 069 2204	K	50V

LOCATION	PARTS No.	DESCRIPTION	
C3201	403 069 2105	K	50V
C3202	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3203	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3204	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3205	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3206	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3207	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3208	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3209	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3211	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3215	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3216	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3351	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3402	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3403	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3404	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3405	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3406	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3501	403 192 0207	M	6.3V
OR	403 275 7406	M	6.3V
C3502	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3503	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3504	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3505	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3506	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C3507	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3509	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3510	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3511	403 013 3004	J	50V
OR	403 115 9607	J	50V

LOCATION	PARTS No.	DESCRIPTION
C3511	403 108 9003	J 50V
C3512	403 013 3004	J 50V
OR	403 115 9607	J 50V
OR	403 108 9003	J 50V
C3513	403 018 0503	J 50V
OR	403 018 3207	J 50V
OR	403 018 2408	J 50V
C3514	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C3515	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C3516	403 026 7501	J 50V
OR	403 133 9009	J 50V
OR	403 108 9300	J 50V
C3517	403 026 7501	J 50V
OR	403 133 9009	J 50V
OR	403 108 9300	J 50V
C3526	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C3551	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3552	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3571	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3572	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3573	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3576	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3577	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3578	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3602	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3603	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3604	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3606	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3607	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3608	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3702	403 248 9703	M 16V
OR	403 268 6508	M 16V
C3703	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3751	403 068 5107	Z 25V
OR	403 257 6700	Z 25V
OR	403 109 8302	Z 50V
C3753	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C3754	403 069 1702	K 50V
OR	403 069 2204	K 50V
OR	403 069 2105	K 50V
C3757	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3801	403 070 9803	K 50V
OR	403 116 7602	K 50V
OR	403 071 0205	K 50V
C3802	403 070 9803	K 50V
OR	403 116 7602	K 50V
OR	403 071 0205	K 50V
C3803	403 070 9803	K 50V
OR	403 116 7602	K 50V
OR	403 071 0205	K 50V
C3804	403 070 9803	K 50V
OR	403 116 7602	K 50V
OR	403 071 0205	K 50V
C3805	403 167 1208	M 35V
OR	403 092 6606	M 35V
C3808	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3809	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3810	403 068 3202	K 25V
OR	403 156 7600	K 25V
C3811	403 068 3202	K 25V
OR	403 156 7600	K 25V
C3812	403 068 3202	K 25V
OR	403 156 7600	K 25V
C3814	403 068 6203	Z 25V
OR	403 116 2300	Z 25V
OR	403 176 2807	Z 50V
C3815	403 167 0607	M 16V
OR	403 091 0407	M 16V
C3816	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3817	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3818	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3822	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3824	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3825	403 248 9703	M 16V
OR	403 268 6508	M 16V
C3901	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3902	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3903	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3904	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3905	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3906	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3907	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V

(RESISTORS)

LOCATION	PARTS No.	DESCRIPTION
R0702	401 105 7305	JA 1/16W
R0703	401 105 7305	JA 1/16W
R0704	401 105 5905	JA 1/16W
R0705	401 105 7909	ZA 1/16W
R0706	401 105 2706	JA 1/16W
R0707	401 166 3001	DU 1/16W
R0708	401 105 0603	JA 1/16W
R0709	401 166 6705	DU 1/16W
R0710	401 166 6507	DU 1/16W
R0711	401 105 3307	JA 1/16W
R0714	401 105 5905	JA 1/16W
R0715	401 166 6309	DU 1/16W
R0716	401 105 0900	JA 1/16W
R0718	401 105 4106	JA 1/16W
R0719	401 166 8600	DU 1/16W
R0720	401 105 2706	JA 1/16W
R0721	401 105 7909	ZA 1/16W
R0722	401 105 7305	JA 1/16W
R0723	401 105 0603	JA 1/16W
R0724	401 105 2706	JA 1/16W
R0725	401 105 6506	JA 1/16W
R0726	401 166 3001	DU 1/16W
R0727	401 166 6507	DU 1/16W
R0728	401 105 2706	JA 1/16W
R0729	401 105 6506	JA 1/16W
R0730	401 105 2805	JA 1/16W
R0731	401 105 5905	JA 1/16W
R0732	401 105 5905	JA 1/16W
R0733	401 105 1907	JA 1/16W
R0734	401 105 2706	JA 1/16W
R0735	401 105 5905	JA 1/16W
R0736	401 105 7909	ZA 1/16W
R0737	401 105 5905	JA 1/16W
R0739	401 105 5400	JA 1/16W
R0743	401 105 1303	JA 1/16W
R1001	401 105 2805	JA 1/16W
R1003	401 105 1006	JA 1/16W
R1004	401 105 0504	JA 1/16W
R1005	401 105 0504	JA 1/16W
R1008	401 105 0504	JA 1/16W
R1009	401 105 5400	JA 1/16W
R1010	401 105 0504	JA 1/16W
R1011	401 105 4106	JA 1/16W
R1012	401 105 5202	JA 1/16W
R1013	401 105 1006	JA 1/16W
R1014	401 105 1006	JA 1/16W
R1019	401 105 0504	JA 1/16W
R1023	401 167 0900	DU 1/16W
R1024	401 105 6001	JA 1/16W
R1025	401 105 4601	JA 1/16W
R1026	401 105 0504	JA 1/16W
R1027	401 105 2805	JA 1/16W
R1028	401 105 0603	JA 1/16W
R1029	401 105 5301	JA 1/16W
R1030	401 105 3406	JA 1/16W
R1031	401 105 7909	ZA 1/16W
R1032	401 105 2102	JA 1/16W
R1033	401 105 7909	ZA 1/16W
R1034	401 105 6605	JA 1/16W
R1035	401 105 4700	JA 1/16W
R1036	401 105 1907	JA 1/16W
R1037	401 105 0504	JA 1/16W
R1038	401 105 6506	JA 1/16W
R1039	401 105 6407	JA 1/16W
R1041	401 113 5300	JA 1/16W
R1042	401 105 7404	JA 1/16W
R1043	401 105 1709	JA 1/16W
R1044	401 105 5905	JA 1/16W
R1051	401 098 7603	JA 1/10W
R1052	401 098 7603	JA 1/10W
R1054	401 105 2102	JA 1/16W
R1055	401 105 3406	JA 1/16W
R1056	401 105 7909	ZA 1/16W
R1058	401 105 7909	ZA 1/16W
R1060	401 098 7603	JA 1/10W
R1061	401 105 5400	JA 1/16W
R1062	401 105 5400	JA 1/16W
R1065	401 105 1501	JA 1/16W
R1066	401 105 0504	JA 1/16W
R1067	401 105 1501	JA 1/16W
R1068	401 114 0502	JA 1/16W
R1069	401 105 4304	JA 1/16W
R1070	401 167 0900	DU 1/16W
R1071	401 167 1402	DU 1/16W
R1072	401 105 7404	JA 1/16W
R1073	401 105 4700	JA 1/16W
R1076	401 105 0603	JA 1/16W
R1077	401 105 0603	JA 1/16W
R1101	401 098 7603	JA 1/10W
R1103	401 105 7909	ZA 1/16W
R1105	401 105 0900	JA 1/16W
R1106	401 105 7503	JA 1/16W
R1107	401 105 6100	JA 1/16W
R1108	401 105 2003	JA 1/16W
R1109	401 105 0504	JA 1/16W
R1110	401 105 1501	JA 1/16W
R1111	401 105 5905	JA 1/16W
R1112	401 105 7305	JA 1/16W
R1113	401 105 6506	JA 1/16W
R1114	401 113 6109	JA 1/16W
R1116	401 105 7909	ZA 1/16W
R1117	401 105 1501	JA 1/16W
R1118	401 105 1006	JA 1/16W
R1119	401 105 5905	JA 1/16W
R1120	401 105 2805	JA 1/16W
R1121	401 105 7305	JA 1/16W
R1122	401 105 0504	JA 1/16W
R1123	401 105 5905	JA 1/16W
R1124	401 105 0504	JA 1/16W
R1126	401 105 7909	ZA 1/16W
R1301	401 105 5905	JA 1/16W
R1302	401 105 2003	JA 1/16W
R1303	401 113 5706	JA 1/16W
R1304	401 105 1501	JA 1/16W
R1306	401 105 6001	JA 1/16W
R1307	401 105 5905	JA 1/16W
R1308	401 105 5905	JA 1/16W
R1309	401 105 0405	JA 1/16W
R1310	401 105 6506	JA 1/16W
R1312	401 166 7108	DU 1/16W
R1313	401 105 5905	JA 1/16W
R1315	401 166 6309	DU 1/16W
R1316	401 105 6506	JA 1/16W
R1317	401 105 0306	JA 1/16W
R1319	401 105 1501	JA 1/16W
R1320	401 105 0603	JA 1/16W
R1321	401 105 1105	JA 1/16W
R1322	401 105 7305	JA 1/16W
R1324	401 105 4007	JA 1/16W
R1325	401 105 4502	JA 1/16W
R1326	401 105 2003	JA 1/16W
R1327	401 105 1501	JA 1/16W
R1328	401 105 2003	JA 1/16W
R1329	401 105 2003	JA 1/16W
R1331	401 105 0900	JA 1/16W
R1332	401 105 5905	JA 1/16W
R1333	401 105 4007	JA 1/16W
R1334	401 166 7900	DU 1/16W
R1335	401 166 8105	DU 1/16W
R1336	401 166 6507	DU 1/16W
R1337	401 105 1501	JA 1/16W
R1338	401 105 5905	JA 1/16W
R1340	401 105 4007	JA 1/16W
R1341	401 105 0504	JA 1/16W
R1342	401 105 5905	JA 1/16W
R1343	401 105 7305	JA 1/16W
R1344	401 105 1501	JA 1/16W
R1346	401 105 6506	JA 1/16W
R1352	401 038 6703	JA 1/10W
R1355	401 037 5103	JA 1/10W
R1359	401 166 6309	DU 1/16W
R1360	401 166 7702	DU 1/16W
R1365	401 105 1600	JA 1/16W
R1366	401 105 4205	JA 1/16W
R1367	401 105 7909	ZA 1/16W
R1369	401 105 1501	JA 1/16W
R1370	401 105 0603	JA 1/16W
R1406	401 105 0504	JA 1/16W
R1413	401 105 6001	JA 1/16W
R1414	401 105 2003	JA 1/16W
R1415	401 105 1501	JA 1/16W
R1416	401 105 2003	JA 1/16W
R1417	401 105 1501	JA 1/16W
R1418	401 113 5508	JA 1/16W
R1419	401 113 6505	JA 1/16W
R1421	401 166 9706	DU 1/16W
R1422	401 105 7305	JA 1/16W
R1423	401 167 0504	DU 1/16W
R1424	401 105 5301	JA 1/16W
R1426	401 105 1600	JA 1/16W
R1428	401 105 5301	JA 1/16W
R1429	401 105 1501	JA 1/16W
R1430	401 105 0603	JA 1/16W
R1433	401 105 0603	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R1437	401 166 8105	DU 1/16W
R1438	401 105 7909	ZA 1/16W
R1439	401 105 5301	JA 1/16W
R1440	401 105 7909	ZA 1/16W
R1442	401 038 6703	JA 1/10W
R1443	401 105 0504	JA 1/16W
R1444	401 113 6208	JA 1/16W
R1445	401 038 2507	JA 1/10W
R1447	401 105 0603	JA 1/16W
R1448	401 105 1501	JA 1/16W
R1450	401 113 6703	JA 1/16W
R1451	401 105 7909	ZA 1/16W
R1452	401 105 2904	JA 1/16W
R1453	401 105 2003	JA 1/16W
R1454	401 105 6605	JA 1/16W
R1463	401 105 7909	ZA 1/16W
R1475	401 113 6109	JA 1/16W
R1476	401 105 2003	JA 1/16W
R1477	401 105 2805	JA 1/16W
R1492	401 105 7909	ZA 1/16W
R1605	401 105 2904	JA 1/16W
R1607	401 105 3406	JA 1/16W
R1608	401 105 4007	JA 1/16W
R1609	401 105 4205	JA 1/16W
R1610	401 105 0702	JA 1/16W
R1611	401 105 4304	JA 1/16W
R1612	401 105 3000	JA 1/16W
R1613	401 105 2706	JA 1/16W
R1617	401 105 1006	JA 1/16W
R1618	401 113 5706	JA 1/16W
R1619	401 105 2003	JA 1/16W
R1620	401 105 3307	JA 1/16W
R1623	401 098 7603	JA 1/10W
R1624	401 105 7909	ZA 1/16W
R1625	401 105 5202	JA 1/16W
R1626	401 105 0603	JA 1/16W
R1627	401 105 0603	JA 1/16W
R1628	401 105 7404	JA 1/16W
R1629	401 105 0603	JA 1/16W
R1630	401 105 7909	ZA 1/16W
R1801	401 038 6703	JA 1/10W
R1802	401 105 2706	JA 1/16W
R1803	401 105 0306	JA 1/16W
R1804	401 105 3208	JA 1/16W
R1805	401 105 2904	JA 1/16W
R1806	401 105 4205	JA 1/16W
R1901	401 105 1709	JA 1/16W
R1902	401 105 7503	JA 1/16W
R1903	401 105 1709	JA 1/16W
R1904	401 105 1105	JA 1/16W
R1905	401 105 1105	JA 1/16W
R1906	401 113 8004	JA 1/16W
R1907	401 113 8004	JA 1/16W
R1908	401 105 2904	JA 1/16W
R1909	401 105 1501	JA 1/16W
R1910	401 105 8104	JA 1/16W
R1911	401 105 4700	JA 1/16W
R1912	401 113 7106	JA 1/16W
R1913	401 105 8104	JA 1/16W
R1914	401 105 2904	JA 1/16W
R1915	401 105 1501	JA 1/16W
R1917	401 105 1105	JA 1/16W
R1918	401 038 2507	JA 1/10W
R1919	401 038 2507	JA 1/10W
R1920	401 105 0603	JA 1/16W
R1921	401 105 4700	JA 1/16W
R1922	401 105 3000	JA 1/16W
R1923	401 105 4700	JA 1/16W
R1924	401 105 3000	JA 1/16W
R1925	401 105 0504	JA 1/16W
R1926	401 105 3307	JA 1/16W
R1927	401 166 7504	DU 1/16W
R1928	401 166 9706	DU 1/16W
R1930	401 105 7503	JA 1/16W
R1931	401 105 0504	JA 1/16W
R1932	401 105 7909	ZA 1/16W
R1933	401 105 7909	ZA 1/16W
R1934	401 105 4106	JA 1/16W
R1939	401 105 7909	ZA 1/16W
R1944	401 105 7909	ZA 1/16W
R2001	401 105 6605	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R2010	401 105 4205	JA 1/16W
R2011	401 105 0603	JA 1/16W
R2017	401 167 0900	DU 1/16W
R2018	401 114 0908	JA 1/16W
R2019	401 167 0009	DU 1/16W
R2020	401 167 0306	DU 1/16W
R2021	401 105 6001	JA 1/16W
R2022	401 105 1006	JA 1/16W
R2040	401 105 0504	JA 1/16W
R2201	401 105 7909	ZA 1/16W
R2401	401 105 0504	JA 1/16W
R2402	401 105 0504	JA 1/16W
R2408	401 105 0702	JA 1/16W
R2410	401 105 7909	ZA 1/16W
R2501	401 105 2904	JA 1/16W
R2502	401 105 0603	JA 1/16W
R2802	401 105 7909	ZA 1/16W
R2806	401 105 7909	ZA 1/16W
R2821	401 105 7909	ZA 1/16W
R2824	401 105 6605	JA 1/16W
R2901	401 105 2904	JA 1/16W
R2902	401 105 3406	JA 1/16W
R2903	401 105 1907	JA 1/16W
R2904	401 105 0504	JA 1/16W
R2905	401 105 2805	JA 1/16W
R2906	401 105 5301	JA 1/16W
R2907	401 105 2706	JA 1/16W
R3101	401 105 0603	JA 1/16W
R3201	401 105 4007	JA 1/16W
R3202	401 105 5509	JA 1/16W
R3203	401 105 4700	JA 1/16W
R3204	401 105 5509	JA 1/16W
R3205	401 105 1204	JA 1/16W
R3206	401 105 0603	JA 1/16W
R3207	401 105 3901	JA 1/16W
R3208	401 105 2003	JA 1/16W
R3209	401 105 5400	JA 1/16W
R3210	401 105 5400	JA 1/16W
R3211	401 105 0603	JA 1/16W
R3213	401 105 0603	JA 1/16W
R3215	401 105 7909	ZA 1/16W
R3220	401 105 5400	JA 1/16W
R3301	401 105 0603	JA 1/16W
R3302	401 105 0603	JA 1/16W
R3303	401 105 5400	JA 1/16W
R3304	401 105 8104	JA 1/16W
R3305	401 105 5400	JA 1/16W
R3306	401 105 5400	JA 1/16W
R3307	401 038 0602	JA 1/10W
R3308	401 037 5202	JA 1/10W
R3309	401 105 0702	JA 1/16W
R3351	401 105 5202	JA 1/16W
R3352	401 112 8005	JA 1/16W
R3353	401 105 5400	JA 1/16W
R3356	401 105 0603	JA 1/16W
R3357	401 105 0405	JA 1/16W
R3358	401 105 2904	JA 1/16W
R3359	401 105 2904	JA 1/16W
R3361	401 105 2805	JA 1/16W
R3362	401 105 2805	JA 1/16W
R3365	401 105 0702	JA 1/16W
R3401	401 105 0504	JA 1/16W
R3402	401 105 0702	JA 1/16W
R3501	401 105 7909	ZA 1/16W
R3502	401 105 0504	JA 1/16W
R3503	401 105 0504	JA 1/16W
R3504	401 105 0603	JA 1/16W
R3505	401 105 0603	JA 1/16W
R3506	401 105 0603	JA 1/16W
R3508	401 105 0702	JA 1/16W
R3509	401 105 0603	JA 1/16W
R3512	401 105 8005	JA 1/16W
R3513	401 105 0504	JA 1/16W
R3514	401 114 0908	JA 1/16W
R3516	401 105 0504	JA 1/16W
R3517	401 105 0702	JA 1/16W
R3518	401 105 0702	JA 1/16W
R3521	401 167 2508	DD 1/16W
R3522	401 105 1600	JA 1/16W
R3523	401 167 2508	DD 1/16W
R3524	401 105 3505	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R3525	401 105 0603	JA 1/16W
R3526	401 105 5400	JA 1/16W
R3527	401 105 5202	JA 1/16W
R3531	401 105 0702	JA 1/16W
R3532	401 105 0702	JA 1/16W
R3533	401 105 0702	JA 1/16W
R3534	401 105 0603	JA 1/16W
R3535	401 105 0603	JA 1/16W
R3536	401 105 0603	JA 1/16W
R3551	401 105 5400	JA 1/16W
R3552	401 105 5400	JA 1/16W
R3571	401 105 0504	JA 1/16W
R3572	401 105 0504	JA 1/16W
R3573	401 105 5400	JA 1/16W
R3575	401 105 0603	JA 1/16W
R3576	401 105 0603	JA 1/16W
R3601	401 105 2904	JA 1/16W
R3602	401 158 4108	JA 1/16W
R3603	401 158 4108	JA 1/16W
R3604	401 158 4108	JA 1/16W
R3605	401 105 4700	JA 1/16W
R3606	401 105 0702	JA 1/16W
R3607	401 105 0504	JA 1/16W
R3608	401 105 4106	JA 1/16W
R3609	401 105 2003	JA 1/16W
R3610	401 105 7909	ZA 1/16W
R3701	401 105 0702	JA 1/16W
R3702	401 105 3307	JA 1/16W
R3703	401 105 0702	JA 1/16W
R3704	401 105 5905	JA 1/16W
R3705	401 105 3000	JA 1/16W
R3706	401 105 2904	JA 1/16W
R3751	401 105 3307	JA 1/16W
R3753	401 105 0405	JA 1/16W
R3754	401 105 8005	JA 1/16W
R3755	401 105 5202	JA 1/16W
R3756	401 105 5202	JA 1/16W
R3757	401 112 8005	JA 1/16W
R3801	401 105 8104	JA 1/16W
R3802	401 105 8104	JA 1/16W
R3803	401 105 8104	JA 1/16W
R3804	401 105 1105	JA 1/16W
R3805	401 110 8601	JA 1/10W
R3806	401 110 8601	JA 1/10W
R3807	401 105 3505	JA 1/16W
R3808	401 105 4700	JA 1/16W
R3809	401 105 2805	JA 1/16W
R3810	401 105 4205	JA 1/16W
R3811	401 105 8005	JA 1/16W
R3812	401 105 0504	JA 1/16W
R3814	401 105 0504	JA 1/16W
R3815	401 105 5202	JA 1/16W
R3816	401 105 5103	JA 1/16W
R3817	401 105 5103	JA 1/16W
R3818	401 105 7909	ZA 1/16W
R3820	401 105 0603	JA 1/16W
R3821	401 105 0603	JA 1/16W
R3901	401 105 0504	JA 1/16W
R3902	401 105 4601	JA 1/16W
R3905	401 105 5905	JA 1/16W
R3906	401 167 0306	DU 1/16W
R3907	401 167 0306	DU 1/16W
R3908	401 105 0702	JA 1/16W

COMPL,PWB,CP-2
(VM-EX22P/VM-EX26P ONLY)
COMPL.No.636 045 6211
(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C9002	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9021	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9023	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9024	403 164 0204	Z 25V
C9025	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V

LOCATION	PARTS No.	DESCRIPTION
C9026	403 155 1807	K 25V
OR	403 237 8502	K 25V
OR	403 176 0100	K 25V
C9028	403 157 3601	J 50V
OR	403 235 0607	J 50V
OR	403 229 5700	J 50V
C9029	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9031	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9032	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9034	403 157 1904	D 50V
OR	403 234 9502	D 50V
OR	403 229 4208	D 50V
C9036	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9037	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9038	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9039	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9070	403 175 0606	M 6.3V
OR	403 279 0403	M 6.3V
C9071	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9072	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9073	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9074	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9075	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9076	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9077	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9078	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9079	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9080	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9081	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9082	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9083	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V
C9085	403 113 3805	K 50V
OR	403 224 5705	K 50V
C9111	403 157 7609	Z 25V
OR	403 281 6400	Z 25V
C9112	403 139 7306	J 50V
OR	403 234 9809	J 50V
OR	403 229 4505	J 50V
C9114	403 134 7400	Z 16V
OR	403 176 9103	Z 16V
OR	403 176 3200	Z 25V
C9115	403 164 0204	Z 25V
OR	403 279 0106	Z 25V
OR	403 176 0209	Z 25V

LOCATION	PARTS No.	DESCRIPTION	
C9116	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9117	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9118	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9119	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9120	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9121	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9122	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9123	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9130	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9131	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9132	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9133	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9134	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9137	403 157 3205	J	50V
OR	403 229 5304	J	50V
C9138	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9140	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9150	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C9151	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9153	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9158	403 139 7702	D	50V
OR	403 234 9205	D	50V
OR	403 229 4000	C	50V
C9165	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9166	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9169	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9170	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9191	403 207 0505	Z	16V
OR	403 278 9506	Z	16V
C9193	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9194	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9196	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9197	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9198	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9199	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V

LOCATION	PARTS No.	DESCRIPTION	
C9200	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9201	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9202	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9203	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9204	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9205	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C9206	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9207	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9208	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9211	403 155 1609	J	50V
OR	403 235 0003	J	50V
OR	403 152 2906	J	50V
C9212	403 139 6903	C	50V
C9215	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9252	403 157 1904	D	50V
OR	403 234 9502	D	50V
OR	403 229 4208	D	50V
C9256	403 157 3809	J	50V
OR	403 235 0706	J	50V
OR	403 229 5908	J	50V
C9257	403 155 4204	J	50V
OR	403 234 9601	J	50V
OR	403 229 4406	J	50V
C9258	403 157 3106	J	50V
OR	403 235 0300	J	50V
OR	403 229 5205	J	50V
C9260	403 155 1609	J	50V
OR	403 235 0003	J	50V
OR	403 152 2906	J	50V
C9261	403 139 7504	J	50V
OR	403 235 0102	J	50V
OR	403 229 5007	J	50V
C9301	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9303	403 175 4505	M	6.3V
OR	403 279 0502	M	6.3V
C9304	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9305	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9306	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9307	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9308	403 113 4109	K	50V
OR	403 224 5804	K	50V
C9309	403 113 4109	K	50V
OR	403 224 5804	K	50V
C9310	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9311	403 172 6106	J	50V
OR	403 235 1109	J	50V
OR	403 229 6103	J	50V
C9312	403 172 6106	J	50V
OR	403 235 1109	J	50V
OR	403 229 6103	J	50V
C9313	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V

LOCATION	PARTS No.	DESCRIPTION	
C9314	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9315	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9316	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9317	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9318	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9319	403 175 4505	M	6.3V
OR	403 279 0502	M	6.3V
C9320	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9322	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9323	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9324	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C9325	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9326	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9330	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9331	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9332	403 192 0405	M	6.3V
OR	403 276 7405	M	6.3V
C9333	403 192 2201	M	16V
OR	403 276 8105	M	16V
C9334	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9335	403 155 2200	K	50V
OR	403 224 5903	K	50V
C9336	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9337	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9338	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9339	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9340	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9341	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9343	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9344	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9347	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9348	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9349	403 167 0201	M	6.3V
OR	403 114 5600	M	6.3V

LOCATION	PARTS No.	DESCRIPTION	
C9350	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9353	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9354	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9359	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9361	403 157 2505	J	50V
OR	403 234 9908	J	50V
OR	403 229 4802	J	50V
C9362	403 157 2901	J	50V
OR	403 235 0201	J	50V
OR	403 229 5106	J	50V
C9371	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9372	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9374	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9381	403 157 7005	K	50V
OR	403 235 5503	K	50V
C9382	403 157 7005	K	50V
OR	403 235 5503	K	50V
C9383	403 157 3304	J	50V
OR	403 235 0409	J	50V
OR	403 229 5403	J	50V
C9391	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9392	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9393	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9394	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9396	403 169 2807	J	50V
OR	403 235 1208	J	50V
OR	403 229 6202	J	50V
C9401	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9402	403 113 4109	K	50V
OR	403 224 5804	K	50V
(RESISTORS)			
R9002	401 105 4205	JA	1/16W
R9003	401 105 3406	JA	1/16W
R9005	401 105 5400	JA	1/16W
R9007	401 105 2102	JA	1/16W
R9008	401 105 3406	JA	1/16W
R9009	401 105 3406	JA	1/16W
R9010	401 105 4700	JA	1/16W
R9011	401 105 3406	JA	1/16W
R9012	401 105 5400	JA	1/16W
R9013	401 105 5400	JA	1/16W
R9014	401 148 6006	JA	1/16W
R9020	401 148 6006	JA	1/16W
R9022	401 105 7909	ZA	1/16W
R9025	401 105 7503	JA	1/16W
R9026	401 105 0603	JA	1/16W
R9027	401 105 0504	JA	1/16W
R9028	401 105 2003	JA	1/16W
R9029	401 105 1105	JA	1/16W
R9030	401 113 7007	JA	1/16W
R9031	401 105 2102	JA	1/16W
R9032	401 105 1600	JA	1/16W
R9033	401 105 4106	JA	1/16W
R9034	401 105 4205	JA	1/16W
R9035	401 105 5400	JA	1/16W
R9036	401 105 0603	JA	1/16W

LOCATION	PARTS No.	DESCRIPTION
R9038	401 105 2102	JA 1/16W
R9039	401 105 4205	JA 1/16W
R9040	401 105 0504	JA 1/16W
R9044	401 105 3406	JA 1/16W
R9045	401 105 2102	JA 1/16W
R9046	401 113 7007	JA 1/16W
R9047	401 105 4205	JA 1/16W
R9050	401 105 0603	JA 1/16W
R9070	401 158 4009	JA 1/16W
R9071	401 167 0504	DU 1/16W
R9072	401 167 1204	DU 1/16W
R9073	401 105 2904	JA 1/16W
R9074	401 105 0603	JA 1/16W
R9075	401 105 4700	JA 1/16W
R9076	401 105 3406	JA 1/16W
R9077	401 113 7106	JA 1/16W
R9078	401 105 8104	JA 1/16W
R9079	401 105 8104	JA 1/16W
R9081	401 105 7909	ZA 1/16W
R9082	401 105 1600	JA 1/16W
R9083	401 105 1600	JA 1/16W
R9084	401 105 1105	JA 1/16W
R9085	401 105 3406	JA 1/16W
R9088	401 105 2904	JA 1/16W
R9089	401 105 2904	JA 1/16W
R9090	401 105 4700	JA 1/16W
R9091	401 105 1600	JA 1/16W
R9092	401 105 4205	JA 1/16W
R9096	401 105 4106	JA 1/16W
R9098	401 105 7909	ZA 1/16W
R9103	401 105 7305	JA 1/16W
R9111	401 105 2706	JA 1/16W
R9112	401 105 2706	JA 1/16W
R9115	401 148 6006	JA 1/16W
R9130	401 105 0306	JA 1/16W
R9131	401 105 0405	JA 1/16W
R9132	401 105 8005	JA 1/16W
R9133	401 105 8203	JA 1/16W
R9134	401 105 0603	JA 1/16W
R9135	401 105 0702	JA 1/16W
R9136	401 105 2706	JA 1/16W
R9138	401 105 1402	JA 1/16W
R9139	401 105 0306	JA 1/16W
R9141	401 105 7909	ZA 1/16W
R9146	401 105 0504	JA 1/16W
R9148	401 105 1501	JA 1/16W
R9150	401 148 6006	JA 1/16W
R9155	401 105 2805	JA 1/16W
R9156	401 105 2805	JA 1/16W
R9157	401 105 0504	JA 1/16W
R9170	401 105 7909	ZA 1/16W
R9179	401 105 0702	JA 1/16W
R9180	401 105 0603	JA 1/16W
R9181	401 105 0603	JA 1/16W
R9182	401 105 0504	JA 1/16W
R9190	401 158 4009	JA 1/16W
R9191	401 166 8709	DU 1/16W
R9192	401 105 0504	JA 1/16W
R9194	401 105 0603	JA 1/16W
BR9195	401 105 3406	JA 1/16W
R9196	401 105 2706	JA 1/16W
R9197	401 105 2102	JA 1/16W
R9198	401 105 3406	JA 1/16W
R9199	401 105 3406	JA 1/16W
R9200	401 105 3208	JA 1/16W
R9201	401 105 4700	JA 1/16W
R9202	401 105 7909	ZA 1/16W
R9204	401 105 6605	JA 1/16W
R9205	401 105 4304	JA 1/16W
R9206	401 105 1105	JA 1/16W
R9207	401 105 5400	JA 1/16W
R9208	401 105 4205	JA 1/16W
R9209	401 105 1105	JA 1/16W
R9211	401 105 4601	JA 1/16W
R9216	401 105 0504	JA 1/16W
R9217	401 105 4007	JA 1/16W
R9218	401 105 4007	JA 1/16W
R9250	401 105 1501	JA 1/16W
R9256	401 105 3307	JA 1/16W
R9257	401 105 5202	JA 1/16W
R9267	401 105 0504	JA 1/16W
R9301	401 105 4700	JA 1/16W
R9302	401 105 3307	JA 1/16W
R9303	401 105 1501	JA 1/16W
R9304	401 105 2904	JA 1/16W
R9305	401 105 1006	JA 1/16W
R9306	401 105 0504	JA 1/16W
R9307	401 105 0504	JA 1/16W
R9308	401 105 5905	JA 1/16W
R9309	401 105 5905	JA 1/16W
R9310	401 105 8005	JA 1/16W
R9311	401 105 7909	ZA 1/16W
R9312	401 105 2805	JA 1/16W
R9313	401 105 5905	JA 1/16W
R9314	401 105 5905	JA 1/16W
R9315	401 105 3307	JA 1/16W
R9316	401 105 0504	JA 1/16W
R9317	401 105 0504	JA 1/16W
R9318	401 105 6001	JA 1/16W
R9319	401 105 1501	JA 1/16W
R9320	401 105 1501	JA 1/16W
R9321	401 105 3307	JA 1/16W
R9322	401 105 2805	JA 1/16W
R9323	401 105 0504	JA 1/16W
R9324	401 105 5202	JA 1/16W
R9325	401 105 1501	JA 1/16W
R9326	401 105 2805	JA 1/16W
R9327	401 105 0504	JA 1/16W
R9328	401 105 6001	JA 1/16W
R9329	401 105 5202	JA 1/16W
R9330	401 105 7404	JA 1/16W
R9331	401 105 1501	JA 1/16W
R9332	401 105 4106	JA 1/16W
R9333	401 105 4106	JA 1/16W
R9334	401 105 2904	JA 1/16W
R9335	401 105 2904	JA 1/16W
R9336	401 105 6001	JA 1/16W
R9337	401 105 7404	JA 1/16W
R9338	401 105 6001	JA 1/16W
R9339	401 105 6605	JA 1/16W
R9340	401 105 7404	JA 1/16W
R9341	401 105 3307	JA 1/16W
R9342	401 105 3307	JA 1/16W
R9343	401 158 4108	JA 1/16W
R9344	401 105 3000	JA 1/16W
R9345	401 105 7909	ZA 1/16W
R9348	401 105 2805	JA 1/16W
R9351	401 105 6001	JA 1/16W
R9352	401 105 6605	JA 1/16W
R9353	401 105 0504	JA 1/16W
R9354	401 105 0504	JA 1/16W
R9356	401 105 7909	ZA 1/16W
R9361	401 105 6605	JA 1/16W
R9364	401 105 0702	JA 1/16W
R9365	401 105 0504	JA 1/16W
R9368	401 105 7909	ZA 1/16W
R9369	401 105 7909	ZA 1/16W
R9370	401 105 5202	JA 1/16W
R9371	401 090 2002	JA 1/10W
R9372	401 090 2002	JA 1/10W
R9373	401 167 0108	DU 1/16W
R9374	401 166 9706	DU 1/16W
R9375	401 105 0306	JA 1/16W
R9376	401 166 9607	DU 1/16W
R9377	401 105 0702	JA 1/16W
R9378	401 105 8104	JA 1/16W
R9379	401 105 6001	JA 1/16W
R9380	401 105 3307	JA 1/16W
R9381	401 105 0504	JA 1/16W
R9382	401 105 0504	JA 1/16W
R9383	401 105 0504	JA 1/16W
R9384	401 105 0504	JA 1/16W
R9385	401 105 0504	JA 1/16W
R9388	401 105 4205	JA 1/16W
R9389	401 105 8203	JA 1/16W
R9390	401 105 0702	JA 1/16W
R9391	401 105 8203	JA 1/16W
R9392	401 105 4205	JA 1/16W
R9393	401 105 8203	JA 1/16W
R9394	401 105 3505	JA 1/16W
R9395	401 105 3000	JA 1/16W
R9396	401 105 3505	JA 1/16W
R9397	401 105 0702	JA 1/16W
R9398	401 105 4304	JA 1/16W
R9399	401 105 5400	JA 1/16W
R9402	401 105 4700	JA 1/16W
R9404	401 105 5301	JA 1/16W
R9405	401 105 5301	JA 1/16W
R9406	401 105 5301	JA 1/16W
R9408	401 105 6704	JA 1/16W
R9409	401 105 5905	JA 1/16W
R9413	401 105 0702	JA 1/16W
R9414	401 105 2102	JA 1/16W
R9415	401 105 1709	JA 1/16W
R9416	401 105 6001	JA 1/16W
R9417	401 105 1600	JA 1/16W
R9419	401 105 0603	JA 1/16W
R9421	401 105 3307	JA 1/16W
R9422	401 105 4601	JA 1/16W
R9423	401 105 5202	JA 1/16W
R9424	401 105 5905	JA 1/16W
R9425	401 105 5905	JA 1/16W
R9426	401 105 2805	JA 1/16W
R9427	401 105 0702	JA 1/16W
R9428	401 105 0702	JA 1/16W
R9429	401 105 0603	JA 1/16W
R9430	401 105 0603	JA 1/16W
R9431	401 105 1006	JA 1/16W
R9432	401 105 4601	JA 1/16W
R9433	401 105 5202	JA 1/16W
R9434	401 105 5905	JA 1/16W
R9435	401 105 5905	JA 1/16W
R9436	401 105 2805	JA 1/16W
R9437	401 105 3307	JA 1/16W
R9438	401 105 2003	JA 1/16W
R9441	401 105 0504	JA 1/16W
R9442	401 105 0504	JA 1/16W
R9443	401 105 0504	JA 1/16W
R9456	401 105 0702	JA 1/16W
R9457	401 105 5400	JA 1/16W
R9463	401 105 0603	JA 1/16W
R9464	401 105 0702	JA 1/16W
R9465	401 105 0702	JA 1/16W
R9466	401 105 0702	JA 1/16W
R9467	401 105 0702	JA 1/16W
R9468	401 105 0702	JA 1/16W
R9469	401 105 0504	JA 1/16W
R9470	401 105 0504	JA 1/16W
R9471	401 105 4106	JA 1/16W
R9472	401 105 4106	JA 1/16W
R9473	401 105 4106	JA 1/16W
R9474	401 105 7909	ZA 1/16W
R9475	401 105 7909	ZA 1/16W
R9482	401 105 0603	JA 1/16W
R9484	401 105 0603	JA 1/16W
R9492	401 105 7909	ZA 1/16W
R9991	401 105 7909	ZA 1/16W
R9999	401 105 7909	ZA 1/16W

COMPL,PWB,PW-1

COMPL.No.636 045 5870

(CAPACITORS)

C3001	403 121 2302	M 10V
C3003	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V

COMPL,PWB,VF-1

COMPL.No.636 045 6235

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION
C9703	403 167 0607	M 16V
OR	403 203 1407	M 16V
OR	403 091 0407	M 16V
C9704	403 070 8806	K 50V
C9705	403 134 8100	M 6.3V
C9706	403 207 0307	Z 16V
C9707	403 065 8002	J 63V
C9708	403 026 2902	J 50V
C9709	403 070 2606	Z 50V
C9711	403 068 0409	Z 25V
C9712	403 028 9800	J 50V
C9713	403 135 3807	M 6.3V
C9716	403 167 6203	K 100V
C9717	403 109 6407	M 50V
C9718	403 105 9501	J 50V
C9719	403 107 9509	M 10V
C9720	403 248 4104	J 100V

(RESISTORS)

R9701	401 037 5707	JA 1/10W
R9702	401 038 5409	JA 1/10W
R9703	401 037 5608	JA 1/10W
R9704	401 038 1807	JA 1/10W
R9707	401 037 9309	JA 1/10W
R9708	401 090 2002	JA 1/10W
R9711	401 089 2907	GA 1/10W
R9712	401 147 4003	GA 1/10W
R9713	401 038 3900	JA 1/10W
R9714	401 038 3504	JA 1/10W
R9716	401 037 5004	ZA 1/10W
R9717	401 038 3900	JA 1/10W
R9718	401 038 5409	JA 1/10W
R9719	401 037 5004	ZA 1/10W
R9720	401 037 6902	JA 1/10W
R9721	401 037 8203	JA 1/10W
R9722	401 037 5400	JA 1/10W
R9723	401 038 5508	JA 1/10W
R9724	401 038 8004	JA 1/10W
R9725	401 039 0700	JA 1/10W
R9726	401 037 5004	ZA 1/10W
R9751	401 037 5004	ZA 1/10W
R9752	401 035 4108	ZA 1/8W
R9753	401 035 4108	ZA 1/8W
R9754	401 035 4108	ZA 1/8W
R9755	401 037 5004	ZA 1/10W
R9756	401 035 4108	ZA 1/8W
R9757	401 035 4108	ZA 1/8W
R9758	401 035 4108	ZA 1/8W
R9760	401 035 4108	ZA 1/8W
R9761	401 037 5004	ZA 1/10W
R9764	401 037 5004	ZA 1/10W

COMPL,PWB,CP-1(VM-EX33P ONLY)

COMPL.No.636 045 5894

(CAPACITORS)

C0701	403 193 7601	M 6.3V
OR	403 038 6707	M 6.3V
C0703	403 022 8205	J 50V
OR	403 023 0802	J 50V
OR	403 023 0109	J 50V
C0705	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0706	403 026 2803	J 50V
OR	403 115 8105	J 50V
OR	403 108 8600	J 50V
C0708	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0709	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0710	403 162 3900	M 4V
OR	403 279 0205	M 4V
C0711	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C0714	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
C0715	403 028 4102	J 50V
OR	403 028 6908	J 50V
OR	403 028 6007	J 50V
C0716	403 014 9203	J 50V
OR	403 116 0009	J 50V
OR	403 108 9102	J 50V
C0717	403 008 7406	D 50V
OR	403 008 9905	D 50V
OR	403 008 9202	D 50V
C0718	403 020 0409	J 50V
OR	403 020 2106	J 50V
OR	403 020 1604	J 50V
00719	403 022 8205	J 50V
OR	403 023 0802	J 50V

LOCATION	PARTS No.	DESCRIPTION	
C0719	403 023 0109	J	50V
C0720	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C0721	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C0724	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1001	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1002	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1004	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1005	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1006	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1007	403 167 0607	M	16V
OR	403 091 0407	M	16V
C1008	403 167 0201	M	6.3V
OR	403 114 5600	M	6.3V
C1009	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1010	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1011	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1012	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1013	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1014	403 018 7403	J	50V
OR	403 116 0702	J	50V
OR	403 108 9201	J	50V
C1015	403 236 0200	Z	25V
C1016	403 024 7107	J	50V
OR	403 228 9907	J	50V
OR	403 153 2400	J	50V
C1017	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1020	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1023	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1027	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1028	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1029	403 072 1607	M	50V
OR	403 116 7800	K	50V
OR	403 108 8303	K	50V
C1030	403 167 0805	M	20V
OR	403 091 6706	M	20V
C1031	403 075 0706	K	50V
OR	403 075 1208	K	50V
OR	403 075 1109	K	50V
C1032	403 167 0607	M	16V
OR	403 091 0407	M	16V
C1033	403 236 0200	Z	25V
C1034	403 212 1603	Z	25V
OR	403 278 9803	Z	25V
OR	403 176 3309	Z	25V
C1035	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1037	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1038	403 207 0307	Z	16V
C1038	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1039	403 193 7601	M	6.3V
OR	403 038 6707	M	6.3V
C1040	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1041	403 248 9703	M	16V
OR	403 268 6508	M	16V
C1042	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1043	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1044	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1046	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1050	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C1051	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1104	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1105	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1106	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1107	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1108	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1109	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1111	403 011 4904	J	50V
OR	403 114 1701	J	50V
OR	403 108 8907	J	50V
C1112	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1113	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1114	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C1115	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1116	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1117	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1118	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1119	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1120	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1121	403 024 2102	J	50V
OR	403 024 4205	J	50V
OR	403 024 3505	J	50V
C1122	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1123	403 008 7406	D	50V
OR	403 008 9905	D	50V
C1123	403 008 9202	D	50V
C1124	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C1302	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1304	403 014 9203	J	50V
OR	403 116 0009	J	50V
OR	403 108 9102	J	50V
C1305	403 024 2102	J	50V
OR	403 024 4205	J	50V
OR	403 024 3505	J	50V
C1306	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1307	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1308	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1310	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1311	403 012 6808	J	50V
OR	403 012 9007	J	50V
OR	403 012 8406	J	50V
C1312	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1313	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C1314	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1315	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1317	403 014 3409	J	50V
OR	403 014 5403	J	50V
OR	403 014 4802	J	50V
C1318	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1319	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1320	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1321	403 032 2309	J	50V
OR	403 278 9407	J	50V
OR	403 153 2103	J	50V
C1322	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1323	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1324	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1325	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1327	403 023 8105	J	50V
OR	403 115 7504	J	50V
OR	403 115 7603	J	50V
C1328	403 020 5503	J	50V
OR	403 210 0806	J	50V
OR	403 153 2301	J	50V
C1329	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1332	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1333	403 071 8102	K	50V
OR	403 071 8706	K	50V
C1333	403 071 8508	K	50V
C1410	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1411	403 008 7406	D	50V
OR	403 008 9905	D	50V
OR	403 008 9202	D	50V
C1412	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1414	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1421	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1603	403 010 8507	J	50V
OR	403 011 0708	J	50V
OR	403 011 0104	J	50V
C1604	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1605	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C1607	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1608	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1610	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C1611	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C1612	403 167 0003	M	4V
OR	403 089 6206	M	4V
C1613	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1614	403 010 5001	J	50V
OR	403 278 9902	J	50V
OR	403 153 2202	J	50V
C1615	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C1618	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1801	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1802	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1803	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C1804	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C1805	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1902	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1903	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1904	403 073 9107	K	50V
OR	403 116 7107	K	50V
C1905	403 023 4404	J	50V
OR	403 023 5500	J	50V
OR	403 023 5203	J	50V
C1906	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C1907	403 167 1505	M	6.3V

LOCATION	PARTS No.	DESCRIPTION	
C1907	403 279 9000	M	6.3V
C1908	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1910	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1913	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1914	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1916	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1917	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1918	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1919	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1920	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1921	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1922	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1923	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1924	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1925	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1927	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C1928	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C1929	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1930	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C1931	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1932	403 027 1201	C	50V
OR	403 027 3700	C	50V
OR	403 027 2901	C	50V
C1933	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C1935	403 030 6903	J	50V
OR	403 117 5508	J	50V
OR	403 108 8709	J	50V
C1936	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C2001	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2002	403 028 4102	J	50V
OR	403 028 6908	J	50V
OR	403 028 6007	J	50V
C2003	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2005	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2010	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
C2010	403 196 3105	Z	16V
C2011	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C2014	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2015	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2016	403 279 0304	M	50V
OR	403 258 4903	M	50V
C2017	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2018	403 018 7502	J	50V
OR	403 018 8301	J	50V
C2019	403 277 5301	M	25V
OR	403 256 0600	M	25V
C2022	403 140 9603	K	25V
OR	403 192 8708	K	25V
C2023	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2025	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2026	403 277 5301	M	25V
OR	403 256 0600	M	25V
C2028	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2029	403 130 3604	K	25V
OR	403 150 5008	K	25V
C2030	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2031	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C2401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C2801	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C2901	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C2902	403 248 9703	M	16V
OR	403 268 6508	M	16V
C2904	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C2905	403 248 9703	M	16V
OR	403 268 6508	M	16V
C3201	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3202	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3203	403 071 8102	K	50V
OR	403 071 8706	K	50V
OR	403 071 8508	K	50V
C3204	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3205	403 009 5708	J	50V
OR	403 009 7504	J	50V
OR	403 009 7009	J	50V
C3206	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3207	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3208	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3209	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3211	403 009 5708	J	50V
OR	403 009 7504	J	50V
C3211	403 009 7009	J	50V
C3215	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3216	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3351	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3401	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3402	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3403	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C3404	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3405	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3406	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3501	403 192 0207	M	6.3V
OR	403 275 7406	M	6.3V
C3502	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3503	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3504	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3505	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3506	403 020 0409	J	50V
OR	403 020 2106	J	50V
OR	403 020 1604	J	50V
C3507	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3509	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3510	403 069 5601	K	50V
OR	403 069 6103	K	50V
OR	403 069 6004	K	50V
C3511	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C3512	403 013 3004	J	50V
OR	403 115 9607	J	50V
OR	403 108 9003	J	50V
C3513	403 018 0503	J	50V
OR	403 018 3207	J	50V
OR	403 018 2408	J	50V
C3514	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3515	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3516	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3517	403 026 7501	J	50V
OR	403 133 9009	J	50V
OR	403 108 9300	J	50V
C3526	403 026 2803	J	50V
OR	403 115 8105	J	50V
OR	403 108 8600	J	50V
C3551	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3552	403 207 0307	Z	16V
C3552	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3571	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3572	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3573	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3576	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3577	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3578	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3602	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3603	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3604	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3606	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3607	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3608	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3702	403 248 9703	M	16V
OR	403 268 6508	M	16V
C3703	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3751	403 068 5107	Z	25V
OR	403 257 6700	Z	25V
OR	403 109 8302	Z	50V
C3753	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3754	403 069 1702	K	50V
OR	403 069 2204	K	50V
OR	403 069 2105	K	50V
C3757	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3801	403 070 9803	K	50V
OR	403 116 7602	K	50V
OR	403 071 0205	K	50V
C3802	403 070 9803	K	50V
OR	403 116 7602	K	50V
OR	403 071 0205	K	50V
C3803	403 070 9803	K	50V
OR	403 116 7602	K	50V
OR	403 071 0205	K	50V
C3804	403 070 9803	K	50V
OR	403 116 7602	K	50V
OR	403 071 0205	K	50V
C3805	403 167 1208	M	35V
OR	403 092 6606	M	35V
C3808	403 207 0307	Z	16V
OR	403 278 9605	Z	16V
OR	403 196 3105	Z	16V
C3809	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C3810	403 068 3202	K	25V
OR	403 156 7600	K	25V
C3811	403 068 3202	K	25V
OR	403 156 7600	K	25V
C3812	403 068 3202	K	25V
OR	403 156 7600	K	25V

LOCATION	PARTS No.	DESCRIPTION
C3814	403 068 6203	Z 25V
OR	403 116 2300	Z 25V
OR	403 176 2807	Z 50V
C3815	403 167 0607	M 16V
OR	403 091 0407	M 16V
C3816	403 207 0307	Z 16V
OR	403 278 9605	Z 16V
OR	403 196 3105	Z 16V
C3817	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3818	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3822	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3824	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
C3825	403 248 9703	M 16V
OR	403 268 6508	M 16V
C3901	403 258 4200	M 6.3V
OR	403 277 5400	M 6.3V
C3902	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3903	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3904	403 009 5708	J 50V
OR	403 009 7504	J 50V
OR	403 009 7009	J 50V
C3905	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3906	403 069 5601	K 50V
OR	403 069 6103	K 50V
OR	403 069 6004	K 50V
C3907	403 068 0409	Z 25V
OR	403 116 2508	Z 25V
OR	403 109 7909	Z 25V
(RESISTORS)		
R0702	401 105 7305	JA 1/16W
R0703	401 105 7305	JA 1/16W
R0704	401 105 5905	JA 1/16W
R0705	401 105 7909	ZA 1/16W
R0706	401 105 2706	JA 1/16W
R0707	401 166 3001	DU 1/16W
R0708	401 105 0603	JA 1/16W
R0709	401 166 6705	DU 1/16W
R0710	401 166 6507	DU 1/16W
R0711	401 105 3307	JA 1/16W
R0714	401 105 5905	JA 1/16W
R0715	401 166 6309	DU 1/16W
R0716	401 105 0900	JA 1/16W
R0718	401 105 4106	JA 1/16W
R0719	401 166 8600	DU 1/16W
R0720	401 105 2706	JA 1/16W
R0721	401 105 7909	ZA 1/16W
R0722	401 105 7305	JA 1/16W
R0723	401 105 0603	JA 1/16W
R0724	401 105 2706	JA 1/16W
R0725	401 105 6506	JA 1/16W
R0726	401 166 3001	DU 1/16W
R0727	401 166 6507	DU 1/16W
R0728	401 105 2706	JA 1/16W
R0729	401 105 6506	JA 1/16W
R0730	401 105 2805	JA 1/16W
R0731	401 105 5905	JA 1/16W
R0732	401 105 5905	JA 1/16W
R0733	401 105 1907	JA 1/16W
R0734	401 105 2706	JA 1/16W
R0735	401 105 5905	JA 1/16W
R0736	401 105 7909	ZA 1/16W
R0737	401 105 5905	JA 1/16W
R0739	401 105 5400	JA 1/16W
R0743	401 105 1303	JA 1/16W
R1001	401 105 2805	JA 1/16W
R1003	401 105 1006	JA 1/16W
R1004	401 105 0504	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R1005	401 105 0504	JA 1/16W
R1008	401 105 0504	JA 1/16W
R1009	401 105 5400	JA 1/16W
R1010	401 105 0504	JA 1/16W
R1011	401 105 4106	JA 1/16W
R1012	401 105 5202	JA 1/16W
R1013	401 105 1006	JA 1/16W
R1014	401 105 1006	JA 1/16W
R1019	401 105 0504	JA 1/16W
R1023	401 167 0900	DU 1/16W
R1024	401 105 6001	JA 1/16W
R1025	401 105 4601	JA 1/16W
R1026	401 105 0504	JA 1/16W
R1027	401 105 2805	JA 1/16W
R1028	401 105 0603	JA 1/16W
R1029	401 105 5301	JA 1/16W
R1030	401 105 3406	JA 1/16W
R1031	401 105 7909	ZA 1/16W
R1032	401 105 2102	JA 1/16W
R1033	401 105 7909	ZA 1/16W
R1034	401 105 6605	JA 1/16W
R1035	401 105 4700	JA 1/16W
R1036	401 105 1907	JA 1/16W
R1037	401 105 0504	JA 1/16W
R1038	401 105 6506	JA 1/16W
R1039	401 105 6407	JA 1/16W
R1041	401 113 5300	JA 1/16W
R1042	401 105 7404	JA 1/16W
R1043	401 105 1709	JA 1/16W
R1044	401 105 5905	JA 1/16W
R1051	401 098 7603	JA 1/10W
R1052	401 098 7603	JA 1/10W
R1054	401 105 2102	JA 1/16W
R1055	401 105 3406	JA 1/16W
R1056	401 105 7909	ZA 1/16W
R1058	401 105 7909	ZA 1/16W
R1060	401 098 7603	JA 1/10W
R1061	401 105 5400	JA 1/16W
R1062	401 105 5400	JA 1/16W
R1065	401 105 1501	JA 1/16W
R1066	401 105 0504	JA 1/16W
R1067	401 105 1501	JA 1/16W
R1068	401 114 0502	JA 1/16W
R1069	401 105 4304	JA 1/16W
R1070	401 167 0900	DU 1/16W
R1071	401 167 1402	DU 1/16W
R1072	401 105 7404	JA 1/16W
R1073	401 105 4700	JA 1/16W
R1076	401 105 0603	JA 1/16W
R1077	401 105 0603	JA 1/16W
R1101	401 098 7603	JA 1/10W
R1103	401 105 7909	ZA 1/16W
R1105	401 105 0900	JA 1/16W
R1106	401 105 7503	JA 1/16W
R1107	401 105 6100	JA 1/16W
R1108	401 105 2003	JA 1/16W
R1109	401 105 0504	JA 1/16W
R1110	401 105 1501	JA 1/16W
R1111	401 105 5905	JA 1/16W
R1112	401 105 7305	JA 1/16W
R1113	401 105 6506	JA 1/16W
R1114	401 113 6109	JA 1/16W
R1116	401 105 7909	ZA 1/16W
R1117	401 105 1501	JA 1/16W
R1118	401 105 1006	JA 1/16W
R1119	401 105 5905	JA 1/16W
R1120	401 105 2805	JA 1/16W
R1121	401 105 7305	JA 1/16W
R1122	401 105 0504	JA 1/16W
R1123	401 105 5905	JA 1/16W
R1124	401 105 0504	JA 1/16W
R1126	401 105 7909	ZA 1/16W
R1301	401 105 5905	JA 1/16W
R1302	401 105 2003	JA 1/16W
R1303	401 113 5706	JA 1/16W
R1304	401 105 1501	JA 1/16W
R1306	401 105 6001	JA 1/16W
R1307	401 105 5905	JA 1/16W
R1308	401 105 5905	JA 1/16W
R1309	401 105 0405	JA 1/16W
R1310	401 105 6506	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R1312	401 166 7108	DU 1/16W
R1313	401 105 5905	JA 1/16W
R1315	401 166 6309	DU 1/16W
R1316	401 105 6506	JA 1/16W
R1317	401 105 0306	JA 1/16W
R1319	401 105 1501	JA 1/16W
R1320	401 105 0603	JA 1/16W
R1321	401 105 1105	JA 1/16W
R1322	401 105 7305	JA 1/16W
R1324	401 105 4007	JA 1/16W
R1325	401 105 4502	JA 1/16W
R1326	401 105 2003	JA 1/16W
R1327	401 105 1501	JA 1/16W
R1328	401 105 2003	JA 1/16W
R1329	401 105 2003	JA 1/16W
R1331	401 105 0900	JA 1/16W
R1332	401 105 5905	JA 1/16W
R1333	401 105 4007	JA 1/16W
R1334	401 166 7900	DU 1/16W
R1335	401 166 8105	DU 1/16W
R1336	401 166 6507	DU 1/16W
R1337	401 105 1501	JA 1/16W
R1338	401 105 5905	JA 1/16W
R1340	401 105 4007	JA 1/16W
R1341	401 105 0504	JA 1/16W
R1342	401 105 5905	JA 1/16W
R1343	401 105 7305	JA 1/16W
R1344	401 105 1501	JA 1/16W
R1346	401 105 6506	JA 1/16W
R1352	401 038 6703	JA 1/10W
R1355	401 037 5103	JA 1/10W
R1359	401 166 6309	DU 1/16W
R1360	401 166 7702	DU 1/16W
R1365	401 105 1600	JA 1/16W
R1366	401 105 4205	JA 1/16W
R1367	401 105 7909	ZA 1/16W
R1369	401 105 1501	JA 1/16W
R1370	401 105 0603	JA 1/16W
R1406	401 105 0504	JA 1/16W
R1413	401 105 6001	JA 1/16W
R1414	401 105 2003	JA 1/16W
R1415	401 105 1501	JA 1/16W
R1416	401 105 2003	JA 1/16W
R1417	401 105 1501	JA 1/16W
R1418	401 113 5508	JA 1/16W
R1419	401 113 6505	JA 1/16W
R1421	401 166 9706	DU 1/16W
R1422	401 105 7305	JA 1/16W
R1423	401 167 0504	DU 1/16W
R1424	401 105 5301	JA 1/16W
R1426	401 105 1600	JA 1/16W
R1428	401 105 5301	JA 1/16W
R1429	401 105 1501	JA 1/16W
R1430	401 105 0603	JA 1/16W
R1433	401 105 0603	JA 1/16W
R1437	401 166 8105	DU 1/16W
R1438	401 105 7909	ZA 1/16W
R1439	401 105 5301	JA 1/16W
R1440	401 105 7909	ZA 1/16W
R1442	401 038 6703	JA 1/10W
R1443	401 105 0504	JA 1/16W
R1444	401 113 6208	JA 1/16W
R1445	401 038 2507	JA 1/10W
R1447	401 105 0603	JA 1/16W
R1448	401 105 1501	JA 1/16W
R1450	401 113 6703	JA 1/16W
R1451	401 105 7909	ZA 1/16W
R1452	401 105 2904	JA 1/16W
R1453	401 105 2003	JA 1/16W
R1454	401 105 6605	JA 1/16W
R1463	401 105 7909	ZA 1/16W
R1475	401 113 6109	JA 1/16W
R1476	401 105 2003	JA 1/16W
R1477	401 105 2805	JA 1/16W
R1492	401 105 7909	ZA 1/16W
R1605	401 105 2904	JA 1/16W
R1607	401 105 3406	JA 1/16W
R1608	401 105 4007	JA 1/16W
R1609	401 105 4205	JA 1/16W
R1610	401 105 0702	JA 1/16W
R1611	401 105 4304	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R1612	401 105 3000	JA 1/16W
R1613	401 105 2706	JA 1/16W
R1617	401 105 1006	JA 1/16W
R1618	401 113 5706	JA 1/16W
R1619	401 105 2003	JA 1/16W
R1620	401 105 3307	JA 1/16W
R1623	401 098 7603	JA 1/10W
R1624	401 105 7909	ZA 1/16W
R1625	401 105 5202	JA 1/16W
R1626	401 105 0603	JA 1/16W
R1627	401 105 0603	JA 1/16W
R1628	401 105 7404	JA 1/16W
R1629	401 105 0603	JA 1/16W
R1630	401 105 7909	ZA 1/16W
R1801	401 038 6703	JA 1/10W
R1802	401 105 2706	JA 1/16W
R1803	401 105 0306	JA 1/16W
R1804	401 105 3208	JA 1/16W
R1805	401 105 2904	JA 1/16W
R1806	401 105 4205	JA 1/16W
R1901	401 105 1709	JA 1/16W
R1902	401 105 7503	JA 1/16W
R1903	401 105 1709	JA 1/16W
R1904	401 105 1105	JA 1/16W
R1905	401 105 1105	JA 1/16W
R1906	401 113 8004	JA 1/16W
R1907	401 113 8004	JA 1/16W
R1908	401 105 2904	JA 1/16W
R1909	401 105 1501	JA 1/16W
R1910	401 105 8104	JA 1/16W
R1911	401 105 4700	JA 1/16W
R1912	401 113 7106	JA 1/16W
R1913	401 105 8104	JA 1/16W
R1914	401 105 2904	JA 1/16W
R1915	401 105 1501	JA 1/16W
R1917	401 105 1105	JA 1/16W
R1918	401 038 2507	JA 1/10W
R1919	401 038 2507	JA 1/10W
R1920	401 105 0603	JA 1/16W
R1921	401 105 4700	JA 1/16W
R1922	401 105 3000	JA 1/16W
R1923	401 105 4700	JA 1/16W
R1924	401 105 3000	JA 1/16W
R1925	401 105 0504	JA 1/16W
R1926	401 105 3307	JA 1/16W
R1927	401 166 7504	DU 1/16W
R1928	401 166 9706	DU 1/16W
R1930	401 105 7503	JA 1/16W
R1931	401 105 0504	JA 1/16W
R1932	401 105 7909	ZA 1/16W
R1933	401 105 7909	ZA 1/16W
R1934	401 105 4106	JA 1/16W
R1939	401 105 7909	ZA 1/16W
R1944	401 105 7909	ZA 1/16W
R2001	401 105 6605	JA 1/16W
R2010	401 105 4205	JA 1/16W
R2011	401 105 0603	JA 1/16W
R2017	401 167 0900	DU 1/16W
R2018	401 114 0908	JA 1/16W
R2019	401 167 0009	DU 1/16W
R2020	401 167 0306	DU 1/16W
R2021	401 105 6001	JA 1/16W
R2022	401 105 1006	JA 1/16W
R2040	401 105 0504	JA 1/16W
R2201	401 105 7909	ZA 1/16W
R2401	401 105 0504	JA 1/16W
R2402	401 105 0504	JA 1/16W
R2408	401 105 0702	JA 1/16W
R2410	401 105 7909	ZA 1/16W
R2501	401 105 2904	JA 1/16W
R2502	401 105 0603	JA 1/16W
R2802	401 105 7909	ZA 1/16W
R2806	401 105 7909	ZA 1/16W
R2821	401 105 7909	ZA 1/16W
R2824	401 105 6605	JA 1/16W
R2901	401 105 2904	JA 1/16W
R2902	401 105 3406	JA 1/16W
R2903	401 105 1907	JA 1/16W
R2904	401 105 0504	JA 1/16W
R2905	401 105 2805	JA 1/16W
R2906	401 105 5301	JA 1/16W

LOCATION	PARTS No.	DESCRIPTION
R2907	401 105 2706	JA 1/16W
R3101	401 105 0603	JA 1/16W
R3201	401 105 4007	JA 1/16W
R3202	401 105 5509	JA 1/16W
R3203	401 105 4700	JA 1/16W
R3204	401 105 5509	JA 1/16W
R3205	401 105 1204	JA 1/16W
R3206	401 105 0603	JA 1/16W
R3207	401 105 3901	JA 1/16W
R3208	401 105 2003	JA 1/16W
R3209	401 105 5400	JA 1/16W
R3210	401 105 5400	JA 1/16W
R3211	401 105 0603	JA 1/16W
R3213	401 105 0603	JA 1/16W
R3215	401 105 7909	ZA 1/16W
R3220	401 105 5400	JA 1/16W
R3301	401 105 0603	JA 1/16W
R3302	401 105 0603	JA 1/16W
R3303	401 105 5400	JA 1/16W
R3304	401 105 8104	JA 1/16W
R3305	401 105 5400	JA 1/16W
R3306	401 105 5400	JA 1/16W
R3307	401 038 0602	JA 1/10W
R3308	401 037 5202	JA 1/10W
R3309	401 105 0702	JA 1/16W
R3351	401 105 5202	JA 1/16W
R3352	401 112 8005	JA 1/16W
R3353	401 105 5400	JA 1/16W
R3356	401 105 0603	JA 1/16W
R3357	401 105 0405	JA 1/16W
R3358	401 105 2904	JA 1/16W
R3359	401 105 2904	JA 1/16W
R3361	401 105 2805	JA 1/16W
R3362	401 105 2805	JA 1/16W
R3365	401 105 0702	JA 1/16W
R3401	401 105 0504	JA 1/16W
R3402	401 105 0702	JA 1/16W
R3501	401 105 7909	ZA 1/16W
R3502	401 105 0504	JA 1/16W
R3503	401 105 0504	JA 1/16W
R3504	401 105 0603	JA 1/16W
R3505	401 105 0603	JA 1/16W
R3506	401 105 0603	JA 1/16W
R3508	401 105 0702	JA 1/16W
R3509	401 105 0603	JA 1/16W
R3512	401 105 8005	JA 1/16W
R3513	401 105 0504	JA 1/16W
R3514	401 114 0908	JA 1/16W
R3516	401 105 0504	JA 1/16W
R3517	401 105 0702	JA 1/16W
R3518	401 105 0702	JA 1/16W
R3521	401 167 2508	DD 1/16W
R3522	401 105 1600	JA 1/16W
R3523	401 167 2508	DD 1/16W
R3524	401 105 3505	JA 1/16W
R3525	401 105 0603	JA 1/16W
R3526	401 105 5400	JA 1/16W
R3527	401 105 5202	JA 1/16W
R3531	401 105 0702	JA 1/16W
R3532	401 105 0702	JA 1/16W
R3533	401 105 0702	JA 1/16W
R3534	401 105 0603	JA 1/16W
R3535	401 105 0603	JA 1/16W
R3536	401 105 0603	JA 1/16W
R3551	401 105 5400	JA 1/16W
R3552	401 105 5400	JA 1/16W
R3571	401 105 0504	JA 1/16W
R3572	401 105 0504	JA 1/16W
R3573	401 105 5400	JA 1/16W
R3575	401 105 0603	JA 1/16W
R3576	401 105 0603	JA 1/16W
R3601	401 105 2904	JA 1/16W
R3602	401 158 4108	JA 1/16W
R3603	401 158 4108	JA 1/16W
R3604	401 158 4108	JA 1/16W
R3605	401 105 4700	JA 1/16W
R3606	401 105 0702	JA 1/16W
R3607	401 105 0504	JA 1/16W
R3608	401 105 4106	JA 1/16W
R3609	401 105 2003	JA 1/16W
R3610	401 105 7909	ZA 1/16W
R3701	401 105 0702	JA 1/16W
R3702	401 105 3307	JA 1/16W
R3703	401 105 0702	JA 1/16W
R3704	401 105 5905	JA 1/16W
R3705	401 105 3000	JA 1/16W
R3706	401 105 2904	JA 1/16W
R3751	401 105 3307	JA 1/16W
R3753	401 105 0405	JA 1/16W
R3754	401 105 8005	JA 1/16W
R3755	401 105 5202	JA 1/16W
R3756	401 105 5202	JA 1/16W
R3757	401 112 8005	JA 1/16W
R3801	401 105 8104	JA 1/16W
R3802	401 105 8104	JA 1/16W
R3803	401 105 8104	JA 1/16W
R3804	401 105 1105	JA 1/16W
R3805	401 110 8601	JA 1/10W
R3806	401 110 8601	JA 1/10W
R3807	401 105 3505	JA 1/16W
R3808	401 105 4700	JA 1/16W
R3809	401 105 2805	JA 1/16W
R3810	401 105 4205	JA 1/16W
R3811	401 105 8005	JA 1/16W
R3812	401 105 0504	JA 1/16W
R3814	401 105 0504	JA 1/16W
R3815	401 105 5202	JA 1/16W
R3816	401 105 5103	JA 1/16W
R3817	401 105 5103	JA 1/16W
R3818	401 105 7909	ZA 1/16W
R3820	401 105 0603	JA 1/16W
R3821	401 105 0603	JA 1/16W
R3901	401 105 0504	JA 1/16W
R3902	401 105 4601	JA 1/16W
R3905	401 105 5905	JA 1/16W
R3906	401 167 0306	DU 1/16W
R3907	401 167 0306	DU 1/16W
R3908	401 105 0702	JA 1/16W

COMPL,PWB,CP-2(VM-EX33P ONLY)

COMPL.No.636 046 0102

(CAPACITORS)

LOCATION	PARTS No.	DESCRIPTION	
C9002	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9021	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9023	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9024	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9025	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9026	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9028	403 157 3601	J	50V
OR	403 235 0607	J	50V
OR	403 229 5700	J	50V
C9029	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9031	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9032	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9034	403 157 1904	D	50V
OR	403 234 9502	D	50V
OR	403 229 4208	D	50V
C9036	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9037	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9038	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9039	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9070	403 175 0606	M	6.3V
OR	403 279 0403	M	6.3V
C9071	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9072	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9073	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9074	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9075	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9076	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9077	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9078	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9079	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9080	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9081	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9082	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9083	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9085	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9111	403 157 7609	Z	25V
OR	403 281 6400	Z	25V
C9112	403 139 7306	J	50V
OR	403 234 9809	J	50V
OR	403 229 4505	J	50V
C9114	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9115	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9116	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9117	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9118	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9119	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9120	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9121	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9122	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9123	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9130	403 134 7400	Z	16V
C9130	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9131	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9132	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9133	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9134	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9137	403 157 3205	J	50V
OR	403 229 5304	J	50V
C9138	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9140	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9150	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C9151	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9153	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9158	403 139 7702	D	50V
OR	403 234 9205	D	50V
OR	403 229 4000	C	50V
C9165	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9166	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9169	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9170	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9191	403 207 0505	Z	16V
OR	403 278 9506	Z	16V
C9193	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9194	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9196	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9197	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9198	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9199	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9200	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9201	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9202	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9203	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9204	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9205	403 258 4200	M	6.3V
OR	403 277 5400	M	6.3V
C9206	403 248 9703	M	16V
OR	403 268 6508	M	16V
C9207	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9208	403 113 3805	K	50V
OR	403 224 5705	K	50V
C9211	403 155 1609	J	50V

LOCATION	PARTS No.	DESCRIPTION	
C9211	403 235 0003	J	50V
OR	403 152 2906	J	50V
C9212	403 139 6903	C	50V
C9215	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9252	403 157 1904	D	50V
OR	403 234 9502	D	50V
OR	403 229 4208	D	50V
C9256	403 157 3809	J	50V
OR	403 235 0706	J	50V
OR	403 229 5908	J	50V
C9257	403 155 4204	J	50V
OR	403 234 9601	J	50V
OR	403 229 4406	J	50V
C9258	403 157 3106	J	50V
OR	403 235 0300	J	50V
OR	403 229 5205	J	50V
C9260	403 155 1609	J	50V
OR	403 235 0003	J	50V
OR	403 152 2906	J	50V
C9261	403 139 7504	J	50V
OR	403 235 0102	J	50V
OR	403 229 5007	J	50V
C9301	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9303	403 175 4505	M	6.3V
OR	403 279 0502	M	6.3V
C9304	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9305	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9306	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9307	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9308	403 113 4109	K	50V
OR	403 224 5804	K	50V
C9309	403 113 4109	K	50V
OR	403 224 5804	K	50V
C9310	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9311	403 172 6106	J	50V
OR	403 235 1109	J	50V
OR	403 229 6103	J	50V
C9312	403 172 6106	J	50V
OR	403 235 1109	J	50V
OR	403 229 6103	J	50V
C9313	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9314	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9315	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9316	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9317	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9318	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9319	403 175 4505	M	6.3V
OR	403 279 0502	M	6.3V
C9320	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9322	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9323	403 164 0204	Z	25V
C9323	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9324	403 167 1505	M	6.3V
OR	403 279 9000	M	6.3V
C9325	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9326	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9330	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9331	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9332	403 192 0405	M	6.3V
OR	403 276 7405	M	6.3V
C9333	403 192 2201	M	16V
OR	403 276 8105	M	16V
C9334	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9335	403 155 2200	K	50V
OR	403 224 5903	K	50V
C9336	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9337	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9338	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9339	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9340	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9341	403 155 1807	K	25V
OR	403 237 8502	K	25V
OR	403 176 0100	K	25V
C9343	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9344	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9347	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9348	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9349	403 167 0201	M	6.3V
OR	403 114 5600	M	6.3V
C9350	403 068 0409	Z	25V
OR	403 116 2508	Z	25V
OR	403 109 7909	Z	25V
C9353	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9354	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9359	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9361	403 157 2505	J	50V
OR	403 234 9908	J	50V
OR	403 229 4802	J	50V
C9362	403 157 2901	J	50V
OR	403 235 0201	J	50V
OR	403 229 5106	J	50V
C9371	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9372	403 134 7400	Z	16V
OR	403 176 9103	Z	16V
OR	403 176 3200	Z	25V
C9374	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9381	403 157 7005	K	50V
OR	403 235 5503	K	50V
C9382	403 157 7005	K	50V
OR	403 235 5503	K	50V
C9383	403 157 3304	J	50V
OR	403 235 0409	J	50V
OR	403 229 5403	J	50V
C9391	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9392	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9393	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9394	403 164 0204	Z	25V
OR	403 279 0106	Z	25V
OR	403 176 0209	Z	25V
C9396	403 169 2807	J	50V
OR	403 235 1208	J	50V
OR	403 229 6202	J	50V
C9402	403 113 4109	K	50V
OR	403 224 5804	K	50V
(RESISTORS)			
R9002	401 105 4205	JA	1/16W
R9003	401 105 3406	JA	1/16W
R9005	401 105 5400	JA	1/16W
R9007	401 105 2102	JA	1/16W
R9008	401 105 3406	JA	1/16W
R9009	401 105 3406	JA	1/16W
R9010	401 105 4700	JA	1/16W
R9011	401 105 3406	JA	1/16W
R9012	401 105 5400	JA	1/16W
R9013	401 105 5400	JA	1/16W
R9014	401 148 6006	JA	1/16W
R9020	401 148 6006	JA	1/16W
R9022	401 105 7909	ZA	1/16W
R9025	401 105 7503	JA	1/16W
R9026	401 105 0603	JA	1/16W
R9027	401 105 0504	JA	1/16W
R9028	401 105 2003	JA	1/16W
R9029	401 105 1105	JA	1/16W
R9030	401 113 7007	JA	1/16W
R9031	401 105 2102	JA	1/16W
R9032	401 105 1600	JA	1/16W
R9033	401 105 4106	JA	1/16W
R9034	401 105 4205	JA	1/16W
R9035	401 105 5400	JA	1/16W
R9036	401 105 0603	JA	1/16W
R9038	401 105 2102	JA	1/16W
R9039	401 105 4205	JA	1/16W
R9040	401 105 0504	JA	1/16W
R9044	401 105 3406	JA	1/16W
R9045	401 105 2102	JA	1/16W
R9046	401 113 7007	JA	1/16W
R9047	401 105 4205	JA	1/16W
R9050	401 105 0603	JA	1/16W
R9070	401 158 4009	JA	1/16W
R9071	401 167 0504	DU	1/16W
R9072	401 167 1204	DU	1/16W
R9073	401 105 2904	JA	1/16W
R9074	401 105 0603	JA	1/16W
R9075	401 105 4700	JA	1/16W
R9076	401 105 3406	JA	1/16W
R9077	401 113 7106	JA	1/16W
R9078	401 105 8104	JA	1/16W
R9079	401 105 8104	JA	1/16W
R9081	401 105 7909	ZA	1/16W
R9082	401 105 1600	JA	1/16W
R9083	401 105 1600	JA	1/16W
R9084	401 105 1105	JA	1/16W
R9085	401 105 3406	JA	1/16W
R9088	401 105 2904	JA	1/16W
R9089	401 105 2904	JA	1/16W
R9090	401 105 4700	JA	1/16W
R9091	401 105 1600	JA	1/16W
R9092	401 105 4205	JA	1/16W
R9096	401 105 4106	JA	1/16W
R9098	401 105 7909	ZA	1/16W
R9103	401 105 7305	JA	1/16W
R9111	401 105 2706	JA	1/16W
R9112	401 105 2706	JA	1/16W
R9115	401 148 6006	JA	1/16W
R9130	401 105 0306	JA	1/16W
R9131	401 105 0405	JA	1/16W
R9132	401 105 8005	JA	1/16W
R9133	401 105 8203	JA	1/16W
R9134	401 105 0603	JA	1/16W
R9135	401 105 0702	JA	1/16W
R9136	401 105 2706	JA	1/16W
R9138	401 105 1402	JA	1/16W
R9139	401 105 0306	JA	1/16W
R9141	401 105 7909	ZA	1/16W
R9146	401 105 0504	JA	1/16W
R9148	401 105 1501	JA	1/16W
R9150	401 148 6006	JA	1/16W
R9155	401 105 2805	JA	1/16W
R9156	401 105 2805	JA	1/16W
R9157	401 105 0504	JA	1/16W
R9170	401 105 7909	ZA	1/16W
R9179	401 105 0702	JA	1/16W
R9180	401 105 0603	JA	1/16W
R9181	401 105 0603	JA	1/16W
R9182	401 105 0504	JA	1/16W
R9190	401 158 4009	JA	1/16W
R9191	401 166 8709	DU	1/16W
R9192	401 105 0504	JA	1/16W
R9194	401 105 0603	JA	1/16W
R9195	401 105 3406	JA	1/16W
R9196	401 105 2706	JA	1/16W
R9197	401 105 2102	JA	1/16W
R9198	401 105 3406	JA	1/16W
R9199	401 105 3406	JA	1/16W
R9200	401 105 3208	JA	1/16W
R9201	401 105 4700	JA	1/16W
R9202	401 105 7909	ZA	1/16W
R9204	401 105 6605	JA	1/16W
R9205	401 105 4304	JA	1/16W
R9206	401 105 1105	JA	1/16W
R9207	401 105 5400	JA	1/16W
R9208	401 105 4205	JA	1/16W
R9209	401 105 1105	JA	1/16W
R9211	401 105 4601	JA	1/16W
R9216	401 105 0504	JA	1/16W
R9217	401 105 4007	JA	1/16W
R9218	401 105 4007	JA	1/16W
R9250	401 105 1501	JA	1/16W
R9256	401 105 3307	JA	1/16W
R9257	401 105 5202	JA	1/16W
R9267	401 105 0504	JA	1/16W
R9301	401 105 4700	JA	1/16W
R9302	401 105 3307	JA	1/16W
R9303	401 105 1501	JA	1/16W
R9304	401 105 2904	JA	1/16W
R9305	401 105 1006	JA	1/16W
R9306	401 105 0504	JA	1/16W
R9307	401 105 0504	JA	1/16W
R9308	401 105 5905	JA	1/16W
R9309	401 105 5905	JA	1/16W
R9310	401 105 8005	JA	1/16W
R9311	401 105 7909	ZA	1/16W
R9312	401 105 2805	JA	1/16W
R9313	401 105 5905	JA	1/16W
R9314	401 105 5905	JA	1/16W
R9315	401 105 3307	JA	1/16W
R9316	401 105 0504	JA	1/16W
R9317	401 105 0504	JA	1/16W
R9318	401 105 6001	JA	1/16W
R9319	401 105 1501	JA	1/16W
R9320	401 105 1501	JA	1/16W
R9321	401 105 3307	JA	1/16W
R9322	401 105 2805	JA	1/16W
R9323	401 105 0504	JA	1/16W
R9324	401 105 5202	JA	1/16W
R9325	401 105 1501	JA	1/16W
R9326	401 105 2805	JA	1/16W
R9327	401 105 0504	JA	1/16W

LOCATION	PARTS No.	DESCRIPTION
R9328	401 105 6001	JA 1/16W
R9329	401 105 5202	JA 1/16W
R9330	401 105 7404	JA 1/16W
R9331	401 105 1501	JA 1/16W
R9332	401 105 4106	JA 1/16W
R9333	401 105 4106	JA 1/16W
R9334	401 105 2904	JA 1/16W
R9335	401 105 2904	JA 1/16W
R9336	401 105 6001	JA 1/16W
R9337	401 105 7404	JA 1/16W
R9338	401 105 6001	JA 1/16W
R9339	401 105 6605	JA 1/16W
R9340	401 105 7404	JA 1/16W
R9341	401 105 3307	JA 1/16W
R9342	401 105 3307	JA 1/16W
R9343	401 158 4108	JA 1/16W
R9344	401 105 3000	JA 1/16W
R9345	401 105 7909	ZA 1/16W
R9348	401 105 2805	JA 1/16W
R9351	401 105 6001	JA 1/16W
R9352	401 105 6605	JA 1/16W
R9353	401 105 0504	JA 1/16W
R9354	401 105 0504	JA 1/16W
R9356	401 105 7909	ZA 1/16W
R9361	401 105 6605	JA 1/16W
R9364	401 105 0702	JA 1/16W
R9365	401 105 0504	JA 1/16W
R9368	401 105 7909	ZA 1/16W
R9369	401 105 7909	ZA 1/16W
R9370	401 105 5202	JA 1/16W
R9371	401 090 2002	JA 1/10W
R9372	401 090 2002	JA 1/10W
R9373	401 167 0108	DU 1/16W
R9374	401 166 9706	DU 1/16W
R9375	401 105 0306	JA 1/16W
R9376	401 166 9607	DU 1/16W
R9377	401 105 0702	JA 1/16W
R9378	401 105 8104	JA 1/16W
R9379	401 105 6001	JA 1/16W
R9380	401 105 3307	JA 1/16W
R9381	401 105 0504	JA 1/16W
R9382	401 105 0504	JA 1/16W
R9383	401 105 0504	JA 1/16W
R9384	401 105 0504	JA 1/16W
R9385	401 105 0504	JA 1/16W
R9388	401 105 4205	JA 1/16W
R9389	401 105 8203	JA 1/16W
R9390	401 105 0702	JA 1/16W
R9391	401 105 8203	JA 1/16W
R9392	401 105 4205	JA 1/16W
R9393	401 105 8203	JA 1/16W
R9394	401 105 3505	JA 1/16W
R9395	401 105 3000	JA 1/16W
R9396	401 105 3505	JA 1/16W
R9397	401 105 0702	JA 1/16W
R9398	401 105 4304	JA 1/16W
R9399	401 105 5400	JA 1/16W
R9402	401 105 4700	JA 1/16W
R9404	401 105 5301	JA 1/16W
R9405	401 105 5301	JA 1/16W
R9406	401 105 5301	JA 1/16W
R9408	401 105 6704	JA 1/16W
R9409	401 105 5905	JA 1/16W
R9413	401 105 0702	JA 1/16W
R9414	401 105 2102	JA 1/16W
R9415	401 105 1709	JA 1/16W
R9416	401 105 6001	JA 1/16W
R9417	401 105 1600	JA 1/16W
R9419	401 105 0603	JA 1/16W
R9421	401 105 3307	JA 1/16W
R9422	401 105 4601	JA 1/16W
R9423	401 105 5202	JA 1/16W
R9424	401 105 5905	JA 1/16W
R9425	401 105 5905	JA 1/16W
R9426	401 105 2805	JA 1/16W
R9427	401 105 0702	JA 1/16W
R9428	401 105 0702	JA 1/16W
R9429	401 105 0603	JA 1/16W
R9430	401 105 0603	JA 1/16W
R9431	401 105 1006	JA 1/16W
R9432	401 105 4601	JA 1/16W
R9433	401 105 5202	JA 1/16W
R9434	401 105 5905	JA 1/16W
R9435	401 105 5905	JA 1/16W
R9436	401 105 2805	JA 1/16W
R9437	401 105 3307	JA 1/16W
R9438	401 105 2003	JA 1/16W
R9441	401 105 0504	JA 1/16W
R9442	401 105 0504	JA 1/16W
R9443	401 105 0504	JA 1/16W
R9451	401 105 7909	ZA 1/16W
R9456	401 105 7909	ZA 1/16W
R9457	401 105 5400	JA 1/16W
R9458	401 105 4205	JA 1/16W
R9459	401 105 4205	JA 1/16W
R9463	401 105 0603	JA 1/16W
R9464	401 105 0702	JA 1/16W
R9465	401 105 0702	JA 1/16W
R9466	401 105 0702	JA 1/16W
R9467	401 105 0702	JA 1/16W
R9468	401 105 0702	JA 1/16W
R9469	401 105 0504	JA 1/16W
R9470	401 105 0504	JA 1/16W
R9471	401 105 4106	JA 1/16W
R9472	401 105 4106	JA 1/16W
R9473	401 105 4106	JA 1/16W
R9482	401 105 0603	JA 1/16W
R9484	401 105 0603	JA 1/16W
R9491	401 105 7909	ZA 1/16W
R9492	401 105 7909	ZA 1/16W
R9991	401 105 7909	ZA 1/16W
R9999	401 105 7909	ZA 1/16W

For CANADA only
SANYO Canada Inc.
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SANYO Electric Co., Ltd.
Osaka, Japan

SCHEMATIC DIAGRAM
&
PRINTED WIRING BOARD

VM-EX22P
VM-EX26P
VM-EX33P

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CA2 CIRCUIT 🅚

AD2 (MICROPHONE) CIRCUIT 🅛

ER25P/EX, E, A, GX, EDX, ER35MP/E, EX

- The voltage shown in red on the circuit diagram is obtained by measurement using a digital voltmeter.
- Note that parts shown with "CAN" below the location No. in the circuit diagram are not used.
- Safety precautions:

  Parts marked with ⚠ are important for ensuring safety. Therefore, never replace any of these parts with a part of a number other than the corresponding specified part No.
- When any part needs to be replaced, refer to the parts list.
- The resistance is expressed in Ω.
- The capacity is expressed in μF unless otherwise specified.

  However, "P" indicates pF. For the electrolytic capacitors, the withstanding voltage (V) is shown.
- The inductance is expressed in mH unless otherwise specified. However, " μ " indicates μH.
- Cautions related to pattern diagram

Side A: Shows the parts viewed from the pattern on the side A.
(The pattern on the side A is shown in red.)
Side B: Shows the parts viewed from the pattern on the side B.
(The pattern on the side B is shown in black.)

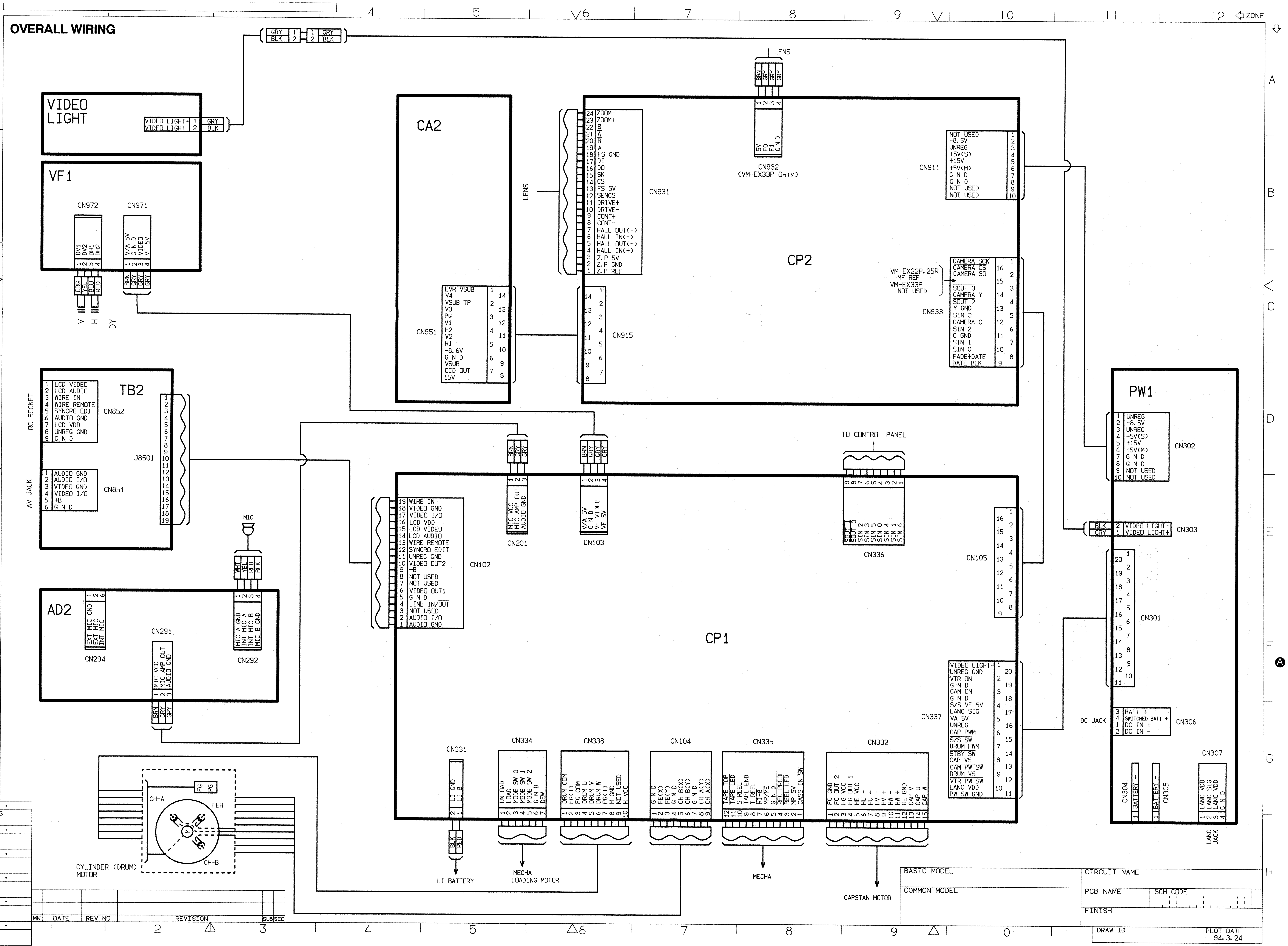
But inner two layer's patterns are not shown.

Note:

The circuit and pattern diagrams are prepared for the initial stage of mass production. Therefore, they may be subject to change for improvement.

The name for the Model VM-EX25R (ER25P/EDX) for Dixons has been changed to VM-EX26P (ER25P/EDX). Because of the printing schedule, some parts of the text have not been altered to reflect this change.

OVERALL WIRING



VIDEO LIGHT
VIDEO LIGHT+ 1 GRY
VIDEO LIGHT- 2 BLK
GRY 1 BLK 2
1 GRY 2 BLK
VF1
CN972
CN971
DV1 DV2 DH1 DH2
ORG YEL BLU RED
V H DY
V/A 5V GND VIDEO VF 5V
BRN GRY GRY GRY
CA2
CN951
EVR VSUB, V4, VSUB TP, V3, PG, V1, H2, V2, H1, -8.6V, GND, VSUB, CCD OUT, 15V
LENS
CN931
24 ZOOM-, 23 ZOOM+, 22 B, 21 A, 20 B, 19 A, 18 FS GND, 17 DI, 16 DO, 15 SK, 14 CS, 13 FS 5V, 12 SENCS, 11 DRIVE+, 10 DRIVE-, 9 CONT+, 8 CONT-, 7 HALL OUT(-), 6 HALL IN(-), 5 HALL OUT(+), 4 HALL IN(+), 3 Z.P 5V, 2 Z.P GND, 1 Z.P REF
CN915
LENS
BRN GRY GRY GRY
5V FO F1 GND
CN932
(VM-EX33P Only)
CP2
CN911
NOT USED, -8.5V, UNREG, +5V(S), +15V, +5V(M), GND, GND, NOT USED, NOT USED
CN933
VM-EX22P, 25R MF REF
VM-EX33P NOT USED
CAMERA SCK, CAMERA CS, CAMERA SO, SOUT 3, CAMERA Y, SOUT 2, Y GND, SIN 3, CAMERA C, SIN 2, C GND, SIN 1, SIN 0, FADE+DATE, DATE BLK
TB2
RC SOCKET
CN852
LCD VIDEO, LCD AUDIO, WIRE IN, WIRE REMOTE, SYNCRO EDIT, AUDIO GND, LCD VDD, UNREG GND, GND
AV JACK
CN851
AUDIO GND, AUDIO I/O, VIDEO GND, VIDEO I/O, +B, GND
J8501
AD2
CN294
EXT MIC GND, EXT MIC, INT MIC
CN291
MIC VCC, MIC AMP OUT, AUDIO GND
BRN GRY GRY
MIC
WHT YEL RED BLK
CN292
MIC A GND, INT MIC A, INT MIC B, MIC B GND
CP1
CN102
19 WIRE IN, 18 VIDEO GND, 17 VIDEO I/O, 16 LCD VDD, 15 LCD VIDEO, 14 LCD AUDIO, 13 WIRE REMOTE, 12 SYNCRO EDIT, 11 UNREG GND, 10 VIDEO OUT2, 9 +B, 8 NOT USED, 7 NOT USED, 6 VIDEO OUT1, 5 GND, 4 LINE IN/OUT, 3 NOT USED, 2 AUDIO I/O, 1 AUDIO GND
CN201
MIC VCC, MIC AMP OUT, AUDIO GND
BRN GRY GRY
CN103
V/A 5V, GND, VF VIDEO, VF 5V
BRN GRY GRY GRY
TO CONTROL PANEL
CN336
SOUT 1, SOUT 0, SIN 2, SIN 3, SIN 5, SIN 0, SIN 4, SIN 1, SIN 6
CN105
CN337
VIDEO LIGHT-, UNREG GND, VTR ON, GND, CAM ON, GND, S/S VF 5V, LANC SIG, VA 5V, UNREG, CAP PWM, S/S SW, DRUM PWM, STBY SW, CAP VS, CAM PW SW, DRUM VS, VTR PW SW, LANC VDD, PW SW GND
CN331
LI GND, LI B
BLK RED
LI BATTERY
CN334
UNLOAD, LOAD, MODE SW 0, MODE SW 1, MODE SW 2, GND, DEW
MECHA LOADING MOTOR
CN338
DRUM COM, FG(+), FG COM, DRUM U, DRUM V, DRUM W, PG(+), H GND, NOT USED, H VCC
CN104
GND, FE(X), FE(Y), GND, CH B(X), CH B(Y), GND, CH A(Y), CH A(X)
CN335
TAPE TOP, TAPE LED, S REEL, TAPE END, T REEL, HI-8, MP/ME, GND, REC PROOF, REEL LED, MP 5V, CASS IN SW
MECHA
CN332
FG GND, FG OUT 2, FG VCC, FG OUT 1, HE VCC, HU +, HU -, HV +, HV -, HW +, HW -, HE GND, CAP V, CAP U, CAP W
CAPSTAN MOTOR
CH-A
FG PG
FEH
M
CH-B
CYLINDER (DRUM) MOTOR
PW1
CN302
UNREG, -8.5V, UNREG, +5V(S), +15V, +5V(M), GND, GND, NOT USED, NOT USED
CN303
BLK GRY
VIDEO LIGHT-, VIDEO LIGHT+
CN301
DC JACK
CN306
BATT +, SWITCHED BATT +, DC IN +, DC IN -
CN304 BATTERY +
CN305 BATTERY -
CN307
LANC VDD, LANC SIG, LANC VDD, GND
LANC JACK
A B C D E F G H
3 4 5 6 7 8 9 10 11 12 ZONE

APPROVALS

CHKD

CHKD

DESIGN

DRAWN

TRACE

MK	DATE	REV NO	REVISION	SUB	SEC

BASIC MODEL

COMMON MODEL

CIRCUIT NAME

PCB NAME

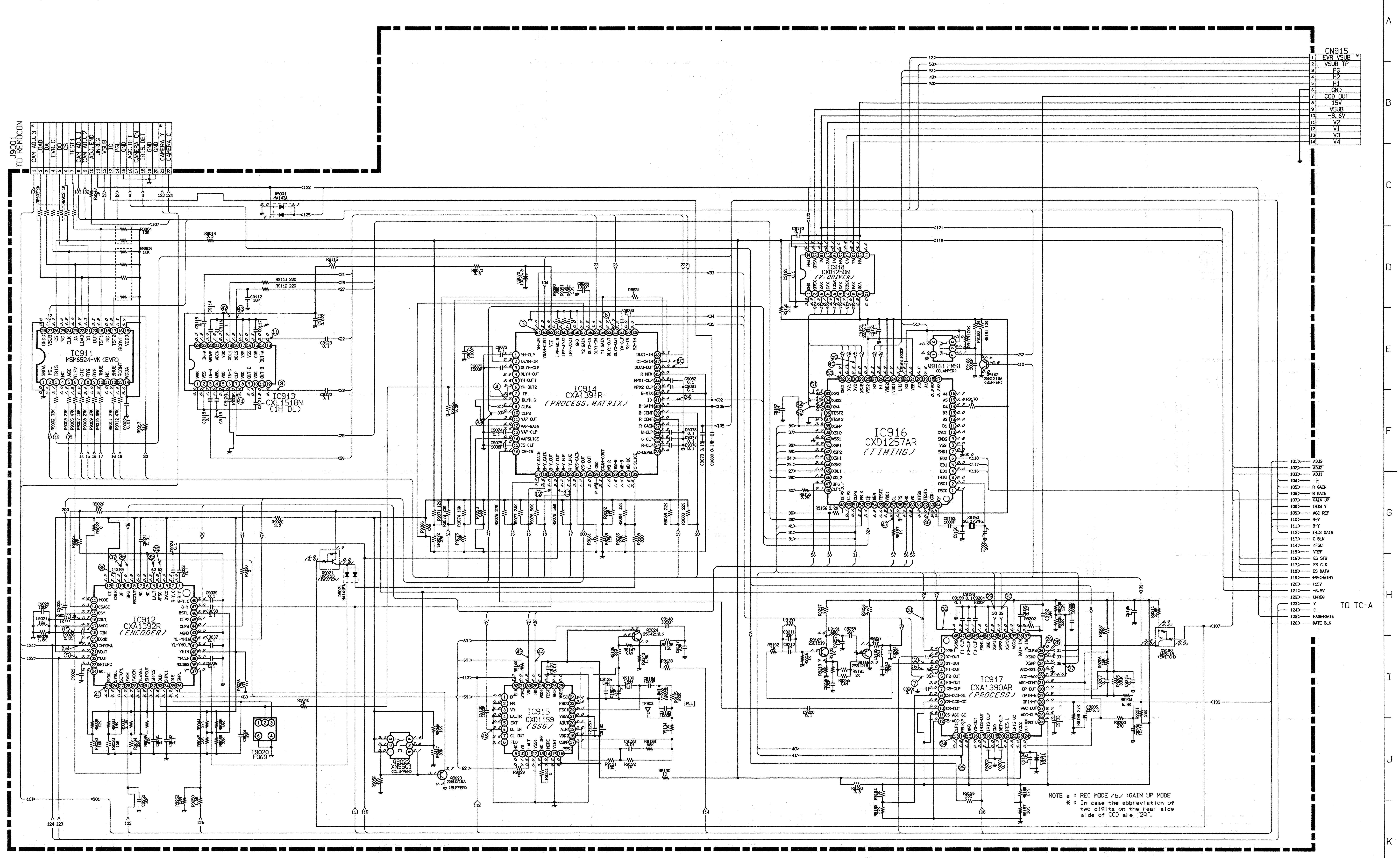
SCH CODE

FINISH

DRAW ID

PLOT DATE 94.3.24

CP2 (CAMERA) CIRCUIT


J9001 TO REMOCON
1 CAM ADJ.3
2 LOAD
3 DA
4 EVR CL
5 DO
6 CS
7 TEST1
8 CAM ADJ.1
9 CAM ADJ.2
10 ADJ.END
11 UNREG
12 VSUB
13 ID
14 PGL
15 GND
16 AGC DET
17 CAMERA ON
18 IRIS DET
19 GND
20 GND
21 CAMERA Y *
22 CAMERA C
CN915
1 EVR VSUB *
2 VSUB TP
3 PG
4 H2
5 H1
6 GND
7 CCD OUT
8 15V
9 VSUB
10 -8.6V
11 V2
12 V1
13 V3
14 V4
IC911 MSM6524-VK (EVR)
IC913 CXL1518N (1H DL)
IC914 CXA1391R (PROCESS, MATRIX)
IC918 CXD1250N (V.DRIVER)
IC916 CXD1257AR (TIMING)
Q9161 FMS1 (CLAMPER)
Q9162 2SB1218A (BUFFER)
IC912 CXA1392R (ENCODER)
Q9021 (SWITCH)
D9021 MA143A
D9001 MA143A
T9020 F059
Q9022 XN5501 (CLIPPER)
Q9023 2SB1218A (BUFFER)
IC915 CXD1159 (SSG)
Q9024 2SC4211L6
TP903
PLL
IC917 CXA1390AR (PROCESS)
Q9190 (SWITCH)
101 ADJ3
102 ADJ2
103 ADJ1
104 r
105 R GAIN
106 B GAIN
107 GAIN UP
108 IRIS Y
109 AGC REF
110 R-Y
111 B-Y
112 IRIS GAIN
113 C BLX
114 4FSC
115 VREF
116 ES STB
117 ES CLK
118 ES DATA
119 +5V(MAIN)
120 +15V
121 -8.5V
122 UNREG
123 Y
124 C
125 FADE+DATE
126 DATE BLK
TO TC-A

NOTE a : REC MODE /b/ :GAIN UP MODE
※ : In case the abbreviation of two digits on the rear side side of CCD are "2Q".

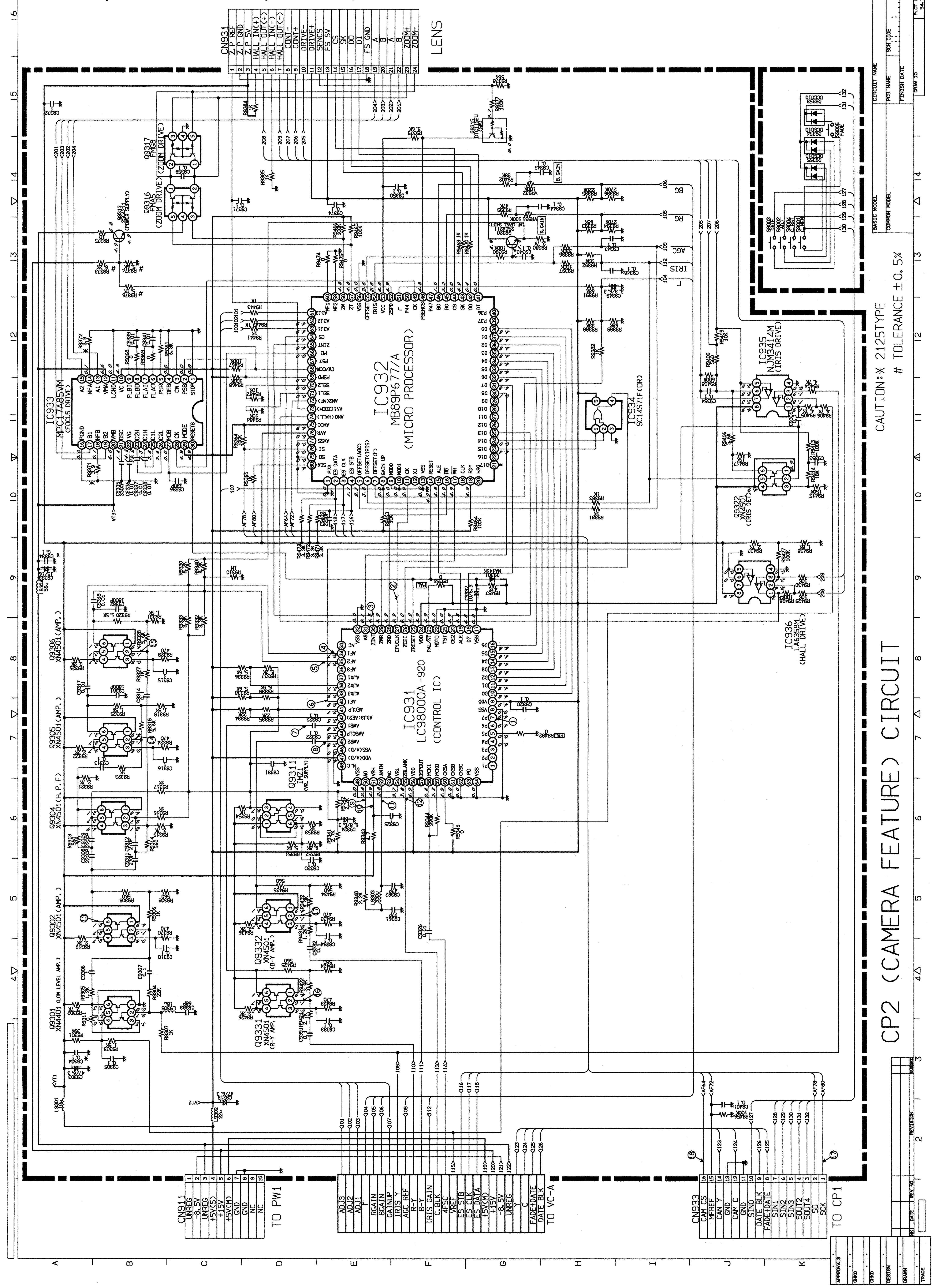
CP2 (CAMERA) CIRCUIT

APPROVALS
CHKD
CHKD
DESIGN
DRAWN
TRACE

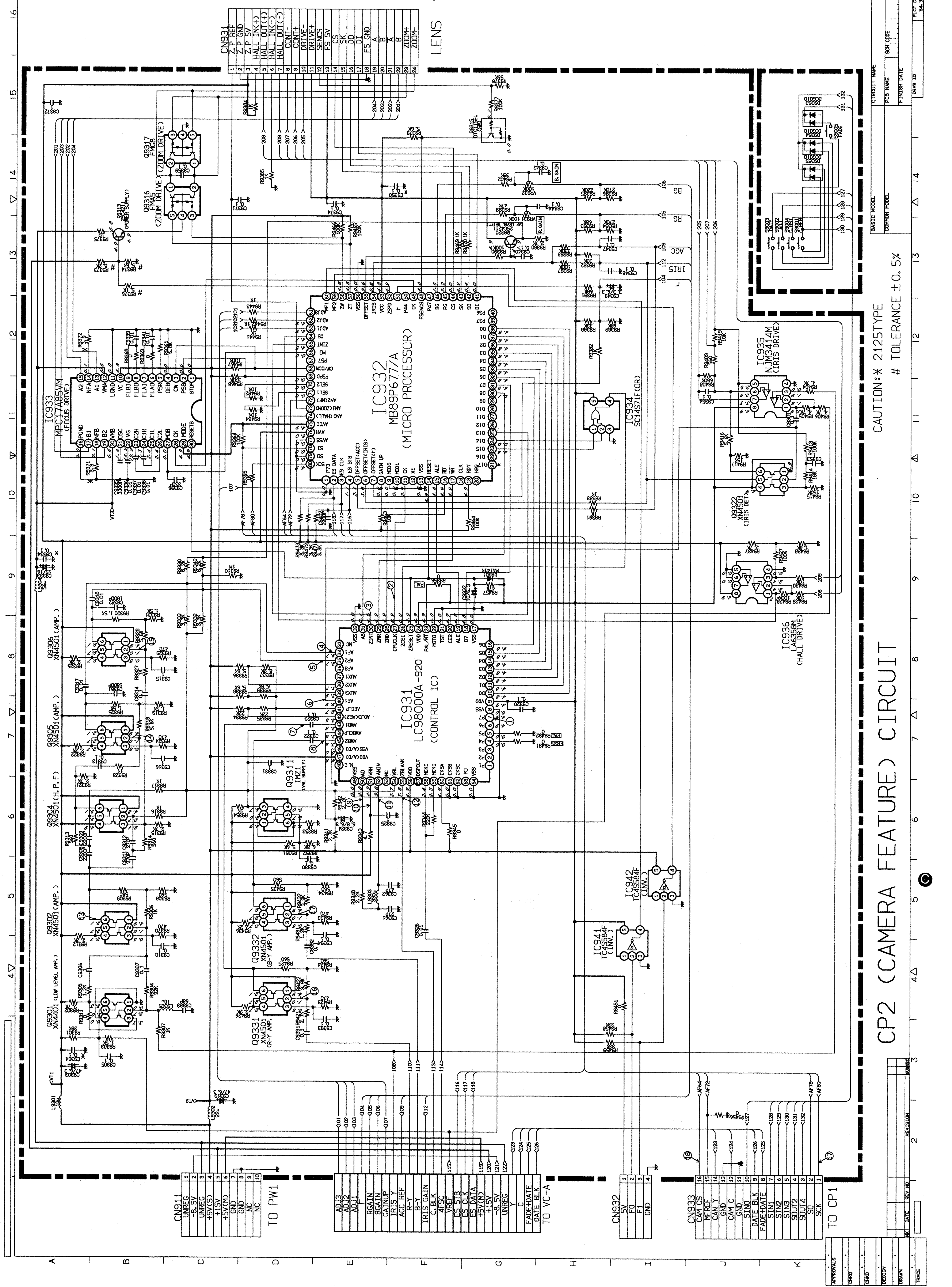
MK	DATE	REV NO	REVISION	SUB	SEC

BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE 94.3.24

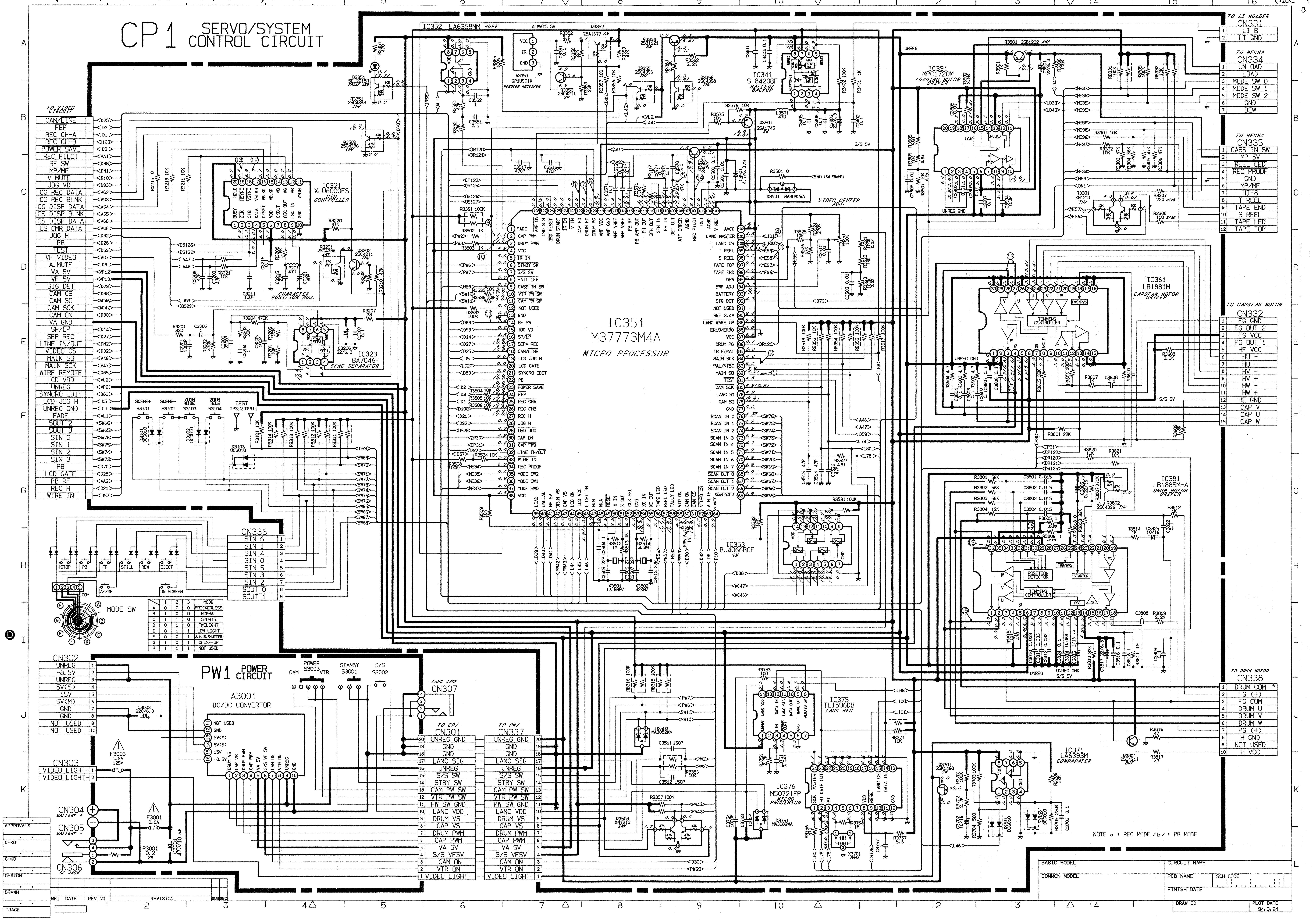
CP2 (CAMERA FEATURE) CIRCUIT (VM-EX22P, VM-EX25R)


CN931
LENS
IC932
MB89P677/A
(MICRO PROCESSOR)
IC933
MPC17A85VM
(FOCUS DRIVE)
IC934
SC14S71F(CR)
IC935
NJM3414M
(IRIS DRIVE)
Q9322
(IRIS DET)
IC931
LC9800A-920
(CONTROL IC)
IC936
LA6358N
(HALL DRIVE)
Q9316
(ZOOM DRIVE)
Q9317
(ZOOM DRIVE)
Q9306
XN4501 (AMP.)
Q9305
XN4501 (AMP.)
Q9304
XN4501 (H.P.F)
Q9302
XN4501 (AMP.)
Q9301
XN4401 (LOW LEVEL AMP.)
Q9311
IMZ1
Q9332
XN4501 (B-Y AMP.)
Q9331
XN4501 (R-Y AMP.)
BG
RG
ACC
IRIS
CN911
TO PW1
TO VC-A
CN933
TO CP1
CAUTION:* 2125TYPE
# TOLERANCE ±0.5%
CP2 (CAMERA FEATURE) CIRCUIT

CP2 (CAMERA FEATURE) CIRCUIT (VM-EX33P)


CN931
LENS
IC932
MB89P677/A
(MICRO PROCESSOR)
IC933
MPC17A85VM
(FOCUS DRIVE)
IC934
SC14S71F(CR)
IC935
NJM3414M
(IRIS DRIVE)
Q9322
(IRIS DET)
IC931
LC9800A-920
(CONTROL IC)
IC936
LA6358N
(HALL DRIVE)
IC941
TC4S584F
(INV.)
IC942
TC4S584F
(INV.)
Q9316
(ZOOM DRIVE)
Q9317
(ZOOM DRIVE)
Q9306
XN4501 (AMP.)
Q9305
XN4501 (AMP.)
Q9304
XN4501 (H.P.F)
Q9302
XN4501 (AMP.)
Q9301
XN4401 (LOW LEVEL AMP.)
Q9311
IMZ1
Q9332
XN4501 (B-Y AMP.)
Q9331
XN4501 (R-Y AMP.)
BG
RG
ACC
IRIS
CN911
TO PW1
TO VC-A
CN932
CN933
TO CP1
CAUTION:* 2125TYPE
# TOLERANCE ±0.5%
CP2 (CAMERA FEATURE) CIRCUIT

CP1 (SERVO/SYSTEM CONTROL/POWER) CIRCUIT


CP1 SERVO/SYSTEM CONTROL CIRCUIT
PW1 POWER CIRCUIT
IC351 M37773M4A MICRO PROCESSOR
IC321 XLU6000FS OSD CONTROLLER
IC323 BA7046F SYNC SEPARATOR
IC352 LA6358NM BUFF
IC341 S-8420BF BATTERY BACKUP
IC391 MPC1720M LOADING MOTOR DRIVER
IC361 LB1881M CAPSTAN MOTOR DRIVER
IC381 LB1885M-A DRUM MOTOR DRIVER
IC353 BU4066BCF SW
IC375 TL1596DB LANC REG
IC376 M50721FP MICRO PROCESSOR
IC371 LA6393M COMPARATER
A3351 GP1U901X REMOCON RECEIVER
A3001 DC/DC CONVERTOR
TO VIDEO CIRCUIT
TO LI HOLDER CN331
1 LI B
2 LI GND
TO MECHA CN334
1 UNLOAD
2 LOAD
3 MODE SW 0
4 MODE SW 1
5 MODE SW 2
6 GND
7 DEW
TO MECHA CN335
1 CASS IN SW
2 MP 5V
3 REEL LED
4 REC PROOF
5 GND
6 MP/ME
7 HI-8
8 T REEL
9 TAPE END
10 S REEL
11 TAPE LED
12 TAPE TOP
TO CAPSTAN MOTOR CN332
1 FG GND
2 FG OUT 2
3 FG VCC
4 FG OUT 1
5 HE VCC
6 HU −
7 HU +
8 HV −
9 HV +
10 HW −
11 HW +
12 HE GND
13 CAP V
14 CAP U
15 CAP W
TO DRUM MOTOR CN338
1 DRUM COM
2 FG (+)
3 FG COM
4 DRUM U
5 DRUM V
6 DRUM W
7 PG (+)
8 H GND
9 NOT USED
10 H VCC
CN336
1 SIN 6
2 SIN 1
3 SIN 4
4 SIN 0
5 SIN 5
6 SIN 3
7 SIN 2
8 SOUT 0
9 SOUT 1
CN302
1 UNREG
2 -8.5V
3 UNREG
4 5V(S)
5 15V
6 5V(M)
7 GND
8 GND
9 NOT USED
10 NOT USED
CN303
1 VIDEO LIGHT+
2 VIDEO LIGHT−
CN304 BATTERY +
CN305 BATTERY −
CN306 DC JACK
LANC JACK CN307
TO CP/ CN301
TP PW/ CN337
20 UNREG GND
19 GND
18 GND
17 LANC SIG
16 UNREG
15 S/S SW
14 STBY SW
13 CAM PW SW
12 VTR PW SW
11 PW SW GND
10 LANC VDD
9 DRUM VS
8 CAP VS
7 DRUM PWM
6 CAP PWM
5 VA 5V
4 S/S VF5V
3 CAM ON
2 VTR ON
1 VIDEO LIGHT-
CAM/LINE
FEP
REC CH-A
REC CH-B
POWER SAVE
REC PILOT
RF SW
MP/ME
V MUTE
JOG VD
CG REC DATA
CG REC BLNK
CG DISP DATA
OS DISP BLNK
OS DISP DATA
OS CMR DATA
JOG H
PB
TEST
VF VIDEO
A.MUTE
VA 5V
VF 5V
SIG DET
CAM CS
CAM SO
CAM SCK
CAM ON
VA GND
SP/LP
SEP REC
LINE IN/OUT
VIDEO CS
MAIN SO
MAIN SCK
WIRE REMOTE
LCD VDD
UNREG
SYNCRO EDIT
LCD JOG H
UNREG GND
FADE
SOUT 2
SOUT 3
SIN 0
SIN 1
SIN 2
SIN 3
PB
LCD GATE
PB RF
REC H
WIRE IN
SCENE+ S3101
SCENE− S3102
ZOOM WIDE S3103
ZOOM TELE S3104
TEST TP312 TP311
STOP
PB
FF
STILL
REW
EJECT
AF/MF
ON SCREEN
COM
MODE SW
POWER S3003
CAM
VTR
STANBY S3001
S/S S3002
F3003 1.5A 125V
F3001 3.0A
CHARACTER POSITION ADJ.
VIDEO CENTER ADJ.
X3501 17.6MHZ
X3502 32KHZ
X3701 2MHZ
POSITION DETECTOR
TIMING CONTROLLER
STARTER
ALWAYS 5V
S/S 5V
UNREG GND
NOTE a : REC MODE /b/ : PB MODE

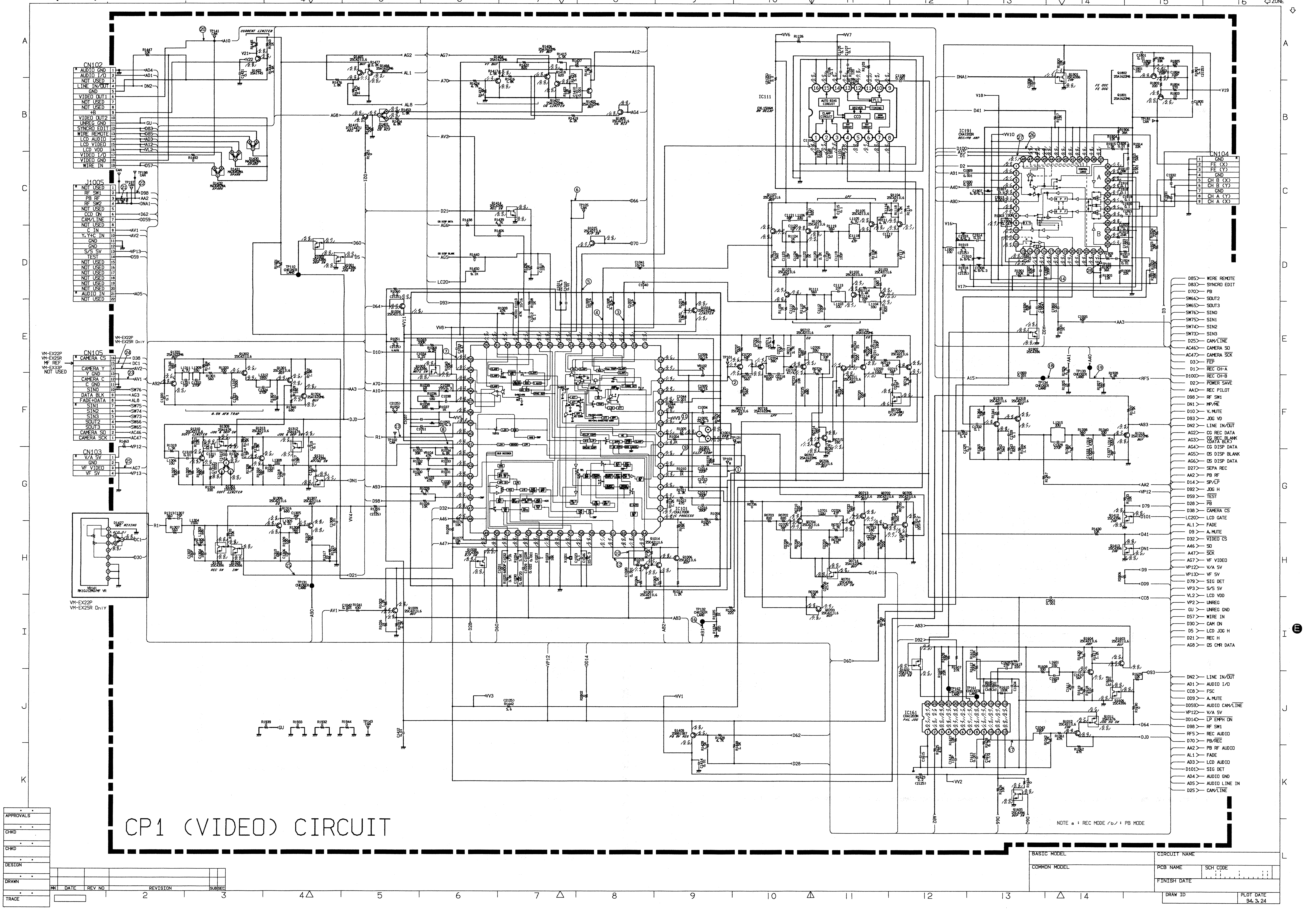
	1	2	3	MODE
A	0	0	0	FRICKERLESS
B	1	0	0	NORMAL
C	1	1	0	SPORTS
D	0	1	0	TWILIGHT
E	0	1	1	LOW LIGHT
F	0	0	1	A.H.S.SHUTTER
G	1	0	1	CLOSE-UP
H	1	1	1	NOT USED

APPROVALS
CHKD
CHKD
DESIGN
DRAWN
TRACE

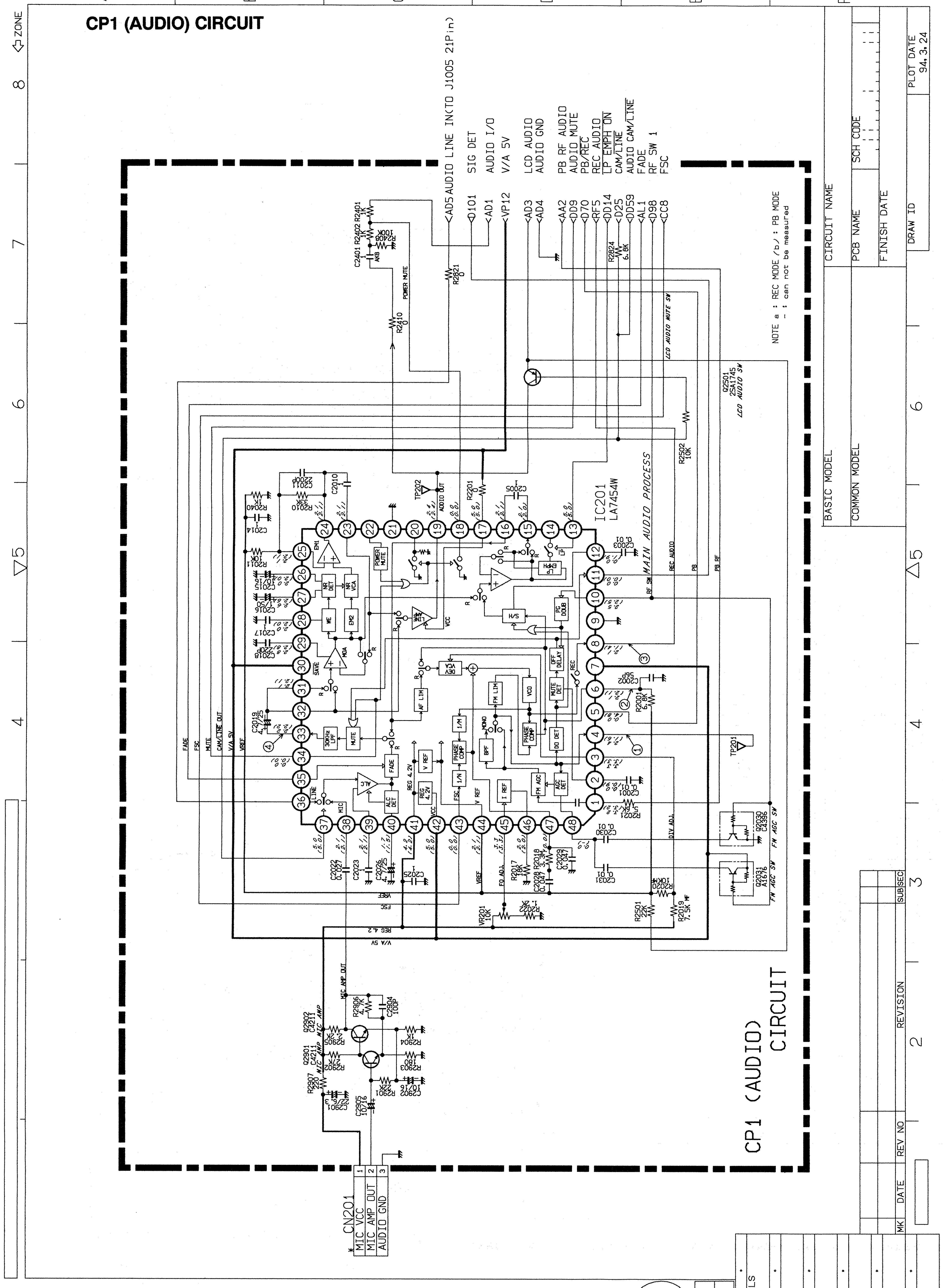
MK DATE REV NO REVISION SUBSEC

BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE 94.3.24

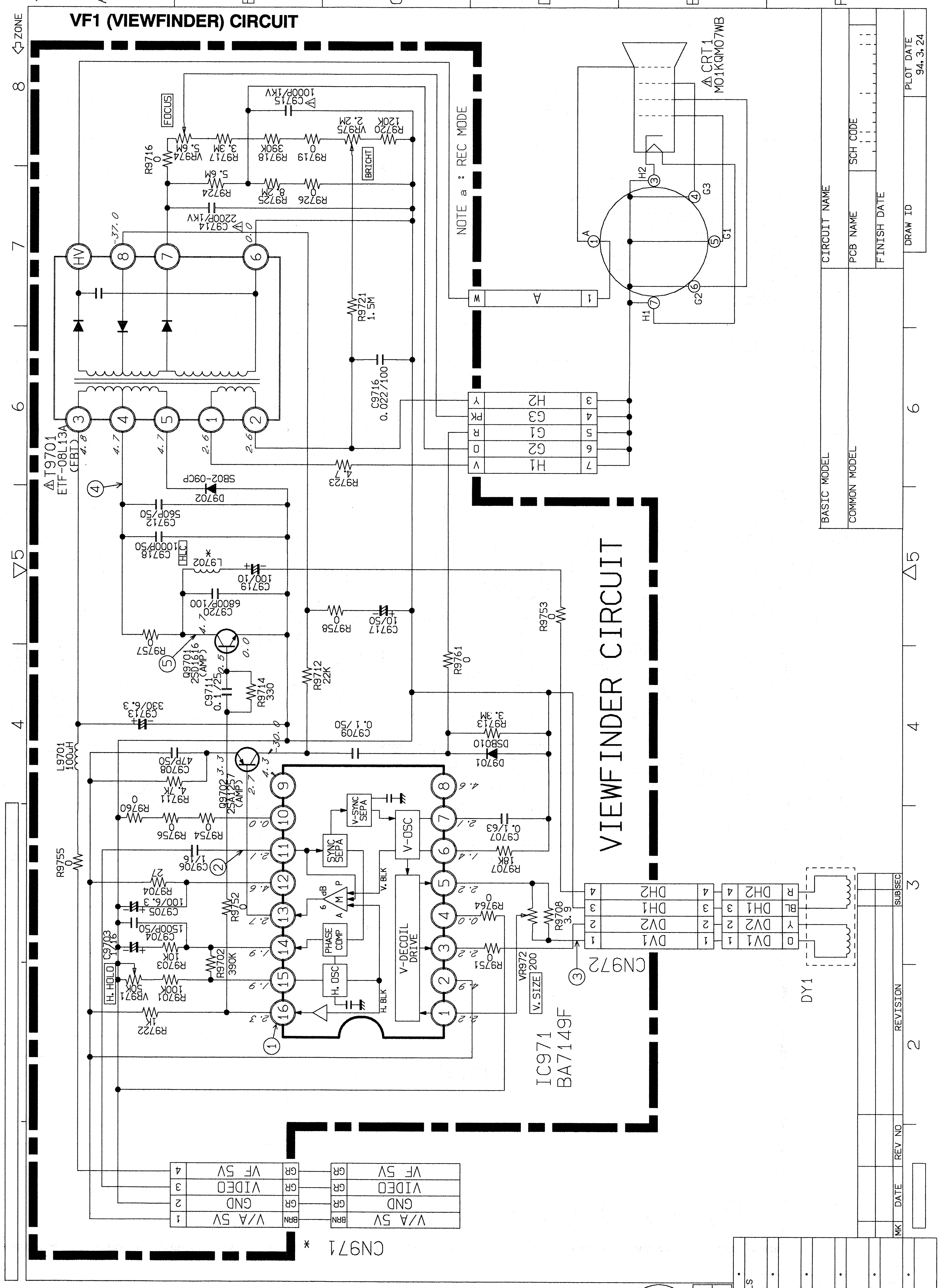
CP1 (VIDEO) CIRCUIT


CN102
1 AUDIO GND
2 AUDIO I/O
3 NOT USED
4 LINE IN/OUT
5 GND
6 VIDEO OUT1
7 NOT USED
8 NOT USED
9 +B
10 VIDEO OUT2
11 UNREG GND
12 SYNCRO EDIT
13 WIRE REMOTE
14 LCD AUDIO
15 LCD VIDEO
16 LCD VDD
17 VIDEO I/O
18 VIDEO GND
19 WIRE IN
J1005
1 NOT USED
2 RF SW1
3 PB RF
4 RF SW2
5 NOT USED
6 CCD ON
7 CAM/LINE
8 NOT USED
9 C IN
10 Y,Y+C IN
11 GND
12 GND
13 S/S 5V
14 TEST
15 NOT USED
16 NOT USED
17 NOT USED
18 NOT USED
19 NOT USED
20 NOT USED
21 AUDIO IN
22 NOT USED
VM-EX22P VM-EX25R Only
VM-EX22P VM-EX25R MF REF
VM-EX33P NOT USED
CN105
16 CAMERA CS
15 GND
14 CAMERA Y
13 Y GND
12 CAMERA C
11 C GND
10 SINO
9 DATA BLK
8 FADE+DATA
7 SIN1
6 SIN2
5 SIN3
4 SOUT2
3 SOUT3
2 CAMERA SD
1 CAMERA SCK
CN103
1 V/A 5V
2 GND
3 VF VIDEO
4 VF 5V
VM-EX22P VM-EX25R Only
CURRENT LIMITER
IC111
CCD
AUTO BIAS CIRCUIT
CLAMP CIRCUIT
DRIVER
TIMING
PLL
IC191 CXA1202R REC/PB AMP
CN104
1 GND
2 FE (X)
3 FE (Y)
4 GND
5 CH B (X)
6 CH B (Y)
7 GND
8 CH A (Y)
9 CH A (X)
IC101 CXA1700R Y/C PROCESS
IC161 CXA1203N PAL JOG
D85 WIRE REMOTE
D83 SYNCRO EDIT
D70 PB
SW66 SOUT2
SW65 SOUT3
SW76 SINO
SW75 SIN1
SW74 SIN2
SW73 SIN3
D25 CAM/LINE
AC46 CAMERA SD
AC47 CAMERA SCK
D3 FEP
D1 REC CH-A
D100 REC CH-B
D2 POWER SAVE
AA1 REC PILOT
D98 RF SW1
DN1 MP/ME
D10 V.MUTE
D93 JOG VD
DN2 LINE IN/OUT
AG2 CG REC DATA
AG3 CG REC BLANK (DATA BLK)
AG4 OS DISP DATA
AG5 OS DISP BLANK
AG6 OS DISP DATA
D27 SEPA REC
AA2 PB RF
D14 SP/LP
D92 JOG H
D59 TEST
D28 PB
D38 CAMERA CS
LC20 LCD GATE
AL1 FADE
D9 A.MUTE
D32 VIDEO CS
A46 SD
A47 SCK
AG7 VF VIDEO
VP12 V/A 5V
VP13 VF 5V
D79 SIG DET
VP3 S/S 5V
VL2 LCD VDD
VP2 UNREG
GU UNREG GND
D57 WIRE IN
D30 CAM ON
D5 LCD JOG H
D21 REC H
AG8 OS CMR DATA
DN2 LINE IN/OUT
AD1 AUDIO I/O
CC8 FSC
D09 A.MUTE
D059 AUDIO CAM/LINE
VP12 V/A 5V
DD14 LP EMPH ON
D98 RF SW1
RF5 REC AUDIO
D70 PB/REC
AA2 PB RF AUDIO
AL1 FADE
AD3 LCD AUDIO
D101 SIG DET
AD4 AUDIO GND
AD5 AUDIO LINE IN
D25 CAM/LINE
NOTE a : REC MODE /b/ : PB MODE
CP1 (VIDEO) CIRCUIT
APPROVALS
CHKD
CHKD
DESIGN
DRAWN
TRACE
MK
DATE
REV NO
REVISION
SUBSEC
BASIC MODEL
COMMON MODEL
CIRCUIT NAME
PCB NAME
SCH CODE
FINISH DATE
DRAW ID
PLOT DATE
94.3.24
ZONE

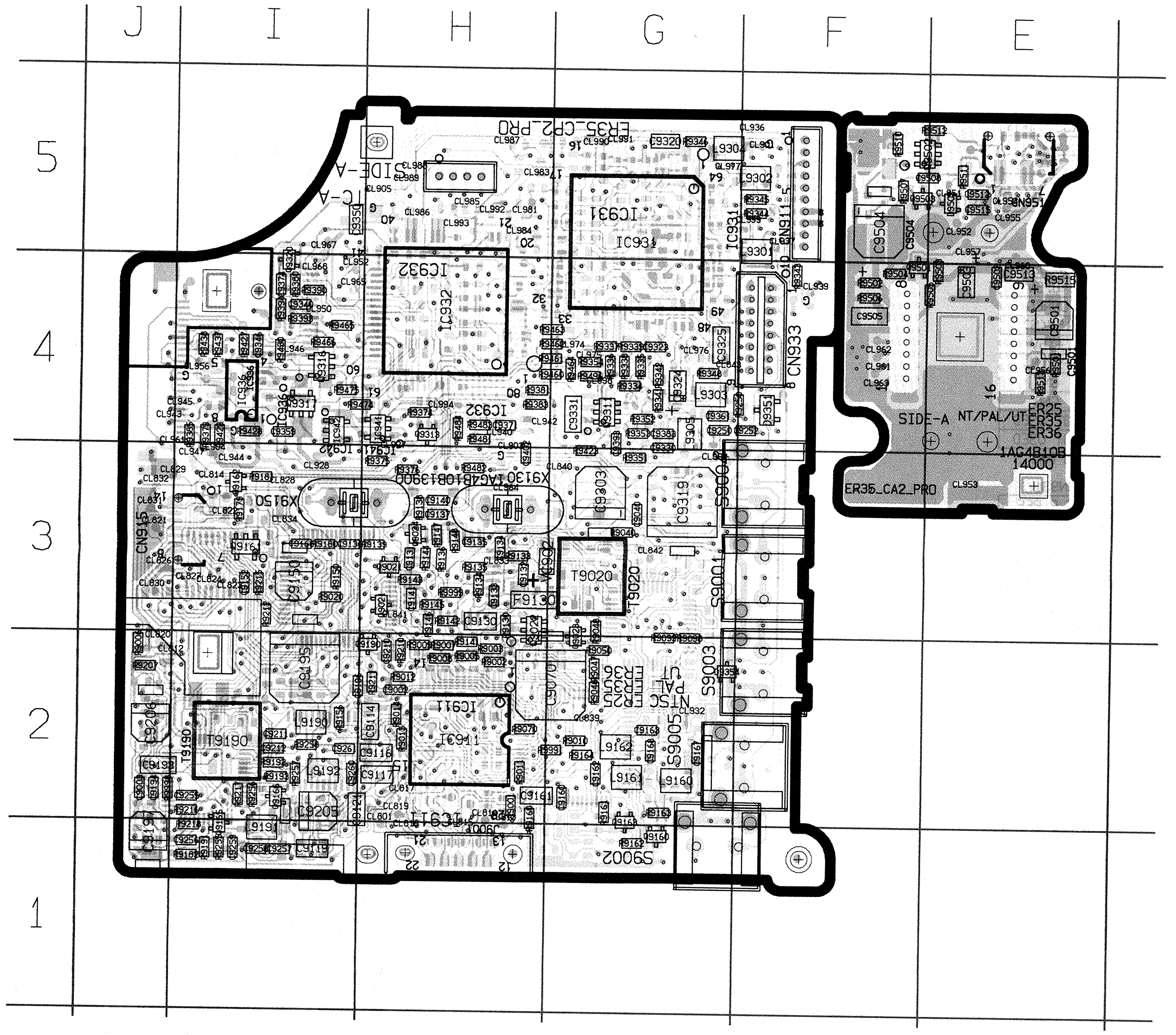
CP1 (AUDIO) CIRCUIT


CP1 (AUDIO) CIRCUIT
IC201 LA7454W
MAIN AUDIO PROCESS
AUDIO LINE INKTO J1005 21Pin
SIG DET
AUDIO I/O
V/A 5V
LCD AUDIO
AUDIO GND
PB RF AUDIO
AUDIO MUTE
PB/REC
REC AUDIO
LP EMPH ON
CAM/LINE
AUDIO CAM/LINE
FADE
RF SW 1
FSC
NOTE a : REC MODE /b/ : PB MODE
- : can not be measured
CN201
MIC VCC
MIC AMP OUT
AUDIO GND
Q2501 2SA1745 LCD AUDIO SW
Q2031 A1676 FM AGC SW
Q2030 C4396 FM AGC SW
TP201
TP202
CIRCUIT NAME
PCB NAME
FINISH DATE
DRAW ID
SCH CODE
PLOT DATE 94.3.24
BASIC MODEL
COMMON MODEL
REVISION
SUBSEC
MK
DATE
REV NO
APPROVALS
CHKD
DESIGN
DRAWN
TRACE

VF1 (VIEWFINDER) CIRCUIT

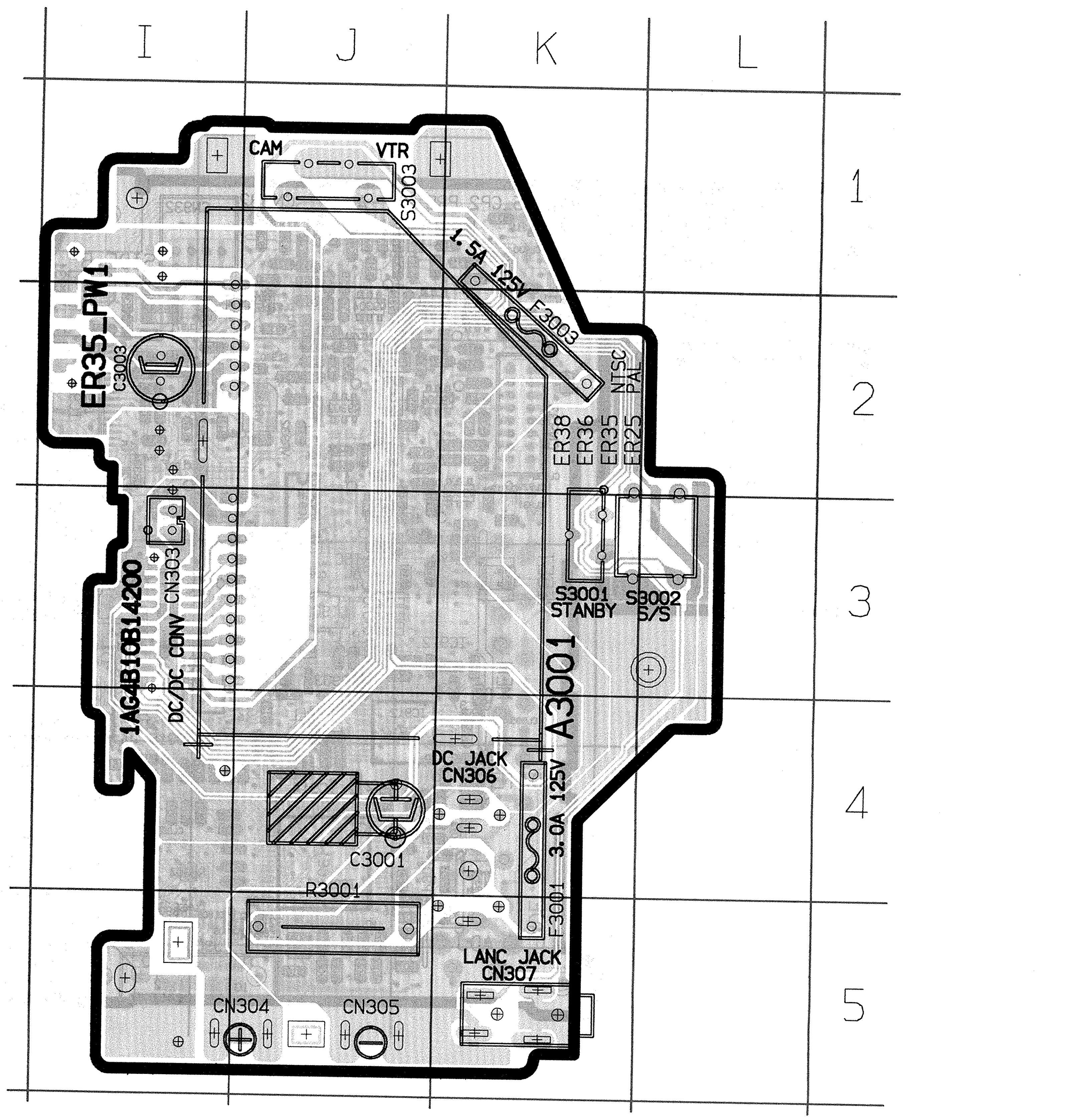

VIEWFINDER CIRCUIT
T9701 ETF-08L13A (FBT)
CRT1 M01KQM07WB
IC971 BA7149F
V-SYNC SEPA
SYNC SEPA
V-OSC
V-DECOIL DRIVE
PHASE COMP
H. OSC
H. HOLD
V. SIZE
FOCUS
BRIGHT
HLC
Q9701 2SD1616 (AMP)
Q9702 2SA1257 (AMP)
NOTE a : REC MODE
CN971
VF 5V
VIDEO
GND
V/A 5V
CN972
DH2
DH1
DV2
DV1
DY1
H2
G3
G1
G2
H1
CIRCUIT NAME
PCB NAME
FINISH DATE
DRAW ID
SCH CODE
PLOT DATE 94.3.24
BASIC MODEL
COMMON MODEL
REVISION
SUBSEC
MK
DATE
REV NO
APPROVALS
CHKD
DESIGN
DRAWN
TRACE

CP2/CA2 BOARD (SIDE A)


J
I
H
G
F
E
5
4
3
2
1
ER35_CP2_PRO
IC931
IC932
IC941
CN933
T9020
T9190
S9002
S9003
S9005
NTSC PAL CUT ER25 ER35 ER36
SIDE-A NT/PAL/UT
ER25 ER35 ER36
1AG4B10B 14000
ER35_CA2_PRO

CN915 CN951	
1	EVR VSUB
2	VSUB TP
3	PG
4	H2
5	H1
6	GND
7	CCD OUT
8	15V
9	VSUB
10	-8.6V
11	V2
12	V1
13	V3
14	V4

PW1 BOARD (SIDE A)

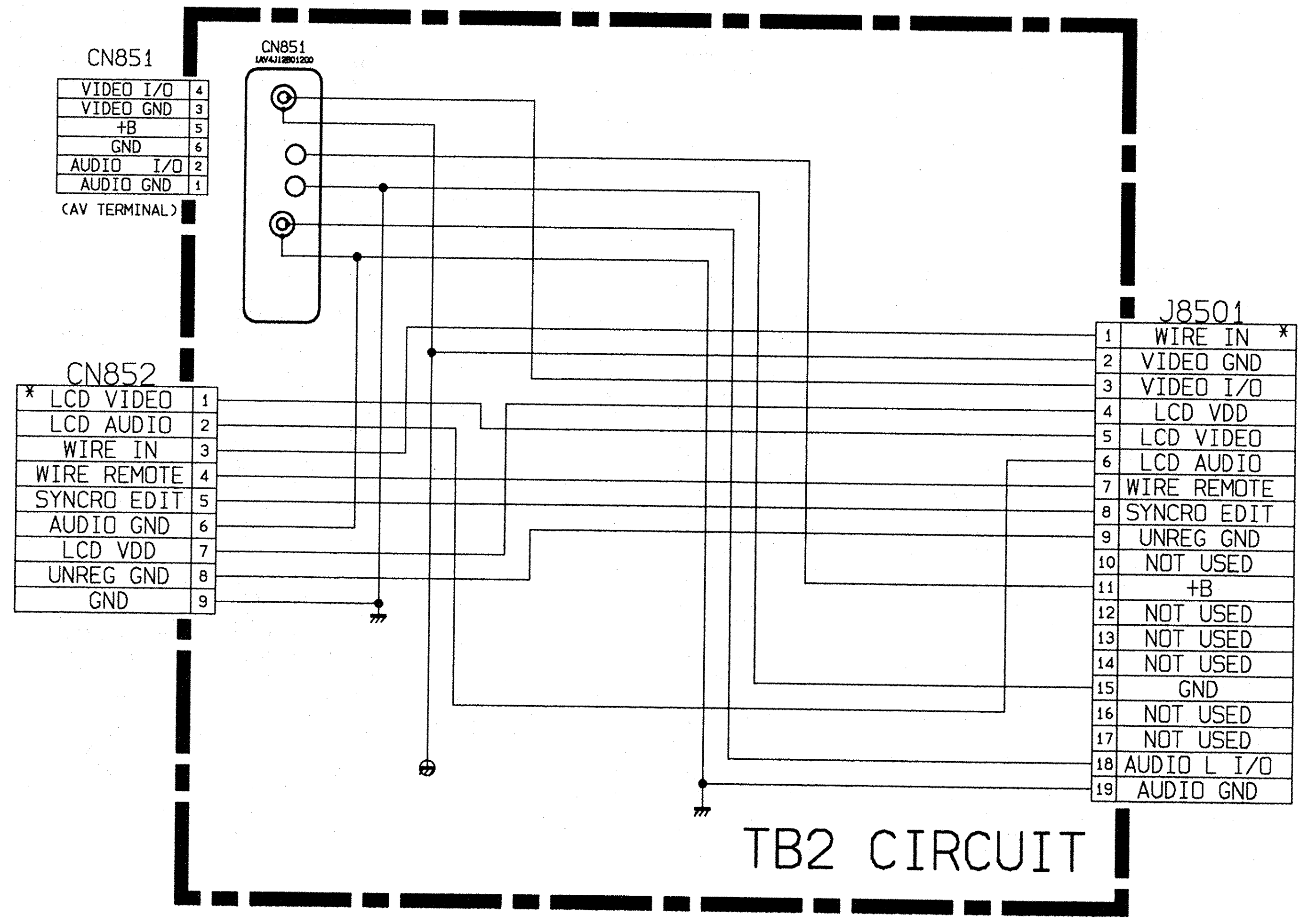

I
J
K
L
1
2
3
4
5
CAM
VTR
S3003
1.5A 125V F3003
ER35_PW1
C3003
1AG4B10B14200
DC/DC CONV CN303
NTSC PAL
ER38 ER36 ER35 ER25
S3001 STANBY
S3002 S/S
A3001
DC JACK CN306
125V 3.0A F3001
C3001
R3001
LANC JACK CN307
CN304
CN305

LEADLESS COMPONENT PARTS LOCATION GUIDE
CP2/CA2 BOARD (SIDE A)

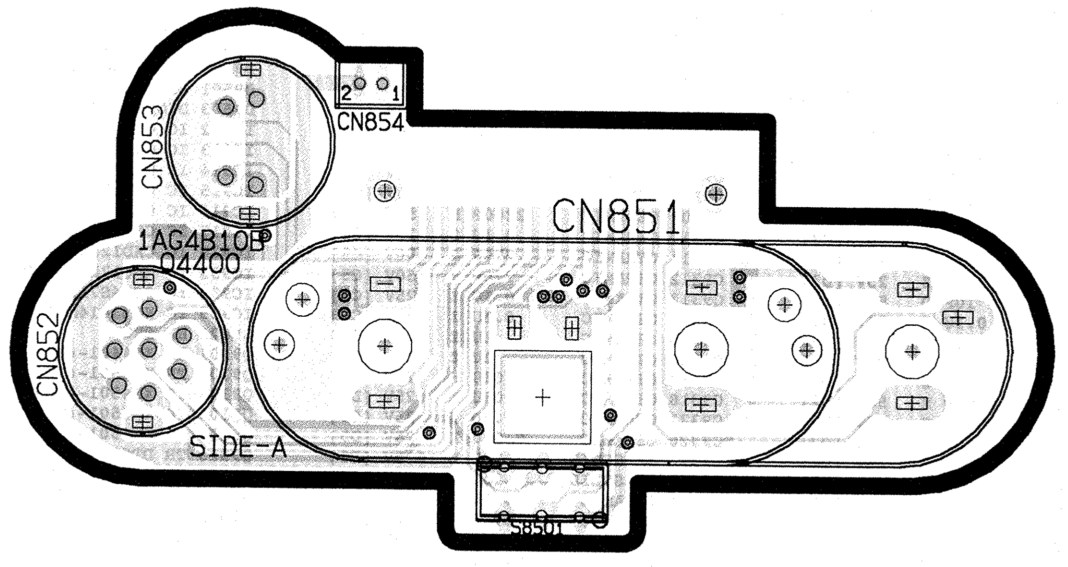
◆:VM-EX22P, 25R Only ★:VM-EX33P Only

	C9002	CERAMIC	0.01U	K	25V	[H2]
	C9070	ELECT	100U	M	6.3V	[G2]
	C9114	CERAMIC	1U	Z	16V	[H2]
	C9116	CERAMIC	1U	Z	16V	[H2]
	C9117	CERAMIC	1U	Z	16V	[H2]
	C9119	CERAMIC	1U	Z	16V	[I1]
	C9121	CERAMIC	1U	Z	16V	[I2]
	C9130	CERAMIC	1U	Z	16V	[H3]
	C9131	CERAMIC	0.01U	K	25V	[H3]
	C9132	CERAMIC	0.01U	K	25V	[H3]
	C9133	CERAMIC	1000P	K	50V	[H3]
	C9134	CERAMIC	1000P	K	50V	[H3]
	C9137	CERAMIC	62P	J	50V	[H3]
	C9140	CERAMIC	1000P	K	50V	[H3]
	C9150	ELECT	22U	M	6.3V	[I3]
	C9166	CERAMIC	1000P	K	50V	[I3]
	C9193	CERAMIC	1U	Z	16V	[J2]
	C9194	CERAMIC	0.01U	K	25V	[J2]
	C9196	CERAMIC	0.1U	Z	25V	[I2]
	C9197	ELECT	10U	M	16V	[J1]
	C9205	ELECT	22U	M	6.3V	[I2]
	C9206	ELECT	10U	M	16V	[J2]
	C9211	CERAMIC	33P	J	50V	[I2]
	C9212	CERAMIC	1P	C	50V	[I2]
	C9252	CERAMIC	10P	D	50V	[F4]
	C9256	CERAMIC	120P	J	50V	[I1]
	C9257	CERAMIC	15P	J	50V	[I1]
	C9258	CERAMIC	56P	J	50V	[I1]
	C9260	CERAMIC	33P	J	50V	[I2]
	C9261	CERAMIC	39P	J	50V	[I2]
	C9303	ELECT	47U	M	6.3V	[G3]
	C9319	ELECT	47U	M	6.3V	[G3]
	C9320	CERAMIC	0.1U	Z	25V	[G5]
	C9323	CERAMIC	0.1U	Z	25V	[G4]
	C9324	TA-SOLID	6.8U	M	6.3V	[G4]
	C9325	CERAMIC	1U	Z	16V	[G4]
	C9330	CERAMIC	0.1U	Z	25V	[G4]
	C9331	CERAMIC	1U	Z	16V	[G4]
	C9340	CERAMIC	0.1U	Z	25V	[I4]
	C9350	CERAMIC	0.1U	Z	25V	[I5]
	C9359	CERAMIC	0.1U	Z	25V	[I4]
	C9361	CERAMIC	27P	J	50V	[G4]
	C9371	CERAMIC	0.1U	Z	25V	[H4]
	C9374	CERAMIC	0.1U	Z	25V	[I4]
	C9383	CERAMIC	68P	J	50V	[G4]
	C9393	CERAMIC	0.1U	Z	25V	[G4]
	C9402	CERAMIC	2200P	K	50V	[H3]
	C9501	ELECT	10U	M	16V	[E4]
	C9502	CERAMIC	0.01U	K	25V	[E4]
	C9503	TA-SOLID	1U	M	25V	[E4]
	C9504	ELECT	47U	M	6.3V	[F5]
	C9505	CERAMIC	1U	Z	16V	[F4]
	C9512	CERAMIC	0.1U	Z	25V	[E5]
	C9513	CERAMIC	1U	Z	16V	[E4]
	D9021	DIODE MA141WA-TX				[H3]
	D9354	DIODE MA141WK-TX				[G2]
	D9502	DIODE MA141WA-TX				[E5]
	IC911	IC MSM6524GS-VKR2				[H2]
	IC931	IC LC98000A-920				[G5]
	IC932	IC MB89P677A				[H4]
	IC936	IC LA6358NM-TP-T1				[I4]
★	IC941	IC SC14S584FEL				[H4]
★	IC942	IC SC14S584FEL				[I4]
	L9190	COIL,INDUCTOR	33U	J		[I2]
	L9191	COIL,INDUCTOR	68U	J		[I1]
	L9192	COIL,INDUCTOR	33U	J		[I2]
	L9301	COIL,INDUCTOR	10U	K		[F5]
	L9302	COIL,INDUCTOR	22U	K		[F5]
	L9303	COIL,INDUCTOR	330U	K		[G4]
	L9304	COIL,INDUCTOR	56U	K		[G5]
	L9305	COIL,INDUCTOR	18U	K		[G4]
	Q9021	TR DTA144EU-T106				[H3]
	Q9022	TR XN5501-TW				[H3]
	Q9023	TR 2SB1218A-R-TX				[G3]
	Q9024	TR 2SC4211-6-TL				[H3]
	Q9161	TR FMS1-T99				[I3]
	Q9162	TR 2SB1218A-R-TX				[I3]
	Q9165	TR 2SC4211-6-TL				[I2]
	Q9166	TR 2SB1218A-R-TX				[I2]
	Q9190	TR DTA144EU-T106				[H2]
	Q9311	TR IMZ1-109				[G4]
	Q9313	TR 2SC4211-6-TL				[H4]
	Q9316	TR FMA5-T99				[I4]
	Q9317	TR FMG8-T99				[I4]
	Q9320	TR 2SC4211-6-TL				[I4]
	Q9501	TR 2SC4399-5-TL				[F4]
	Q9502	TR XN5501-TW				[F5]
	Q9503	TR 2SC4211-6-TL				[F5]
	R9002	MT-GLAZE	33K	JA	1/16W	[H2]
	R9003	MT-GLAZE	27K	JA	1/16W	[H2]
	R9005	MT-GLAZE	47K	JA	1/16W	[H2]
	R9007	MT-GLAZE	18K	JA	1/16W	[H2]
	R9008	MT-GLAZE	27K	JA	1/16W	[H2]
	R9009	MT-GLAZE	27K	JA	1/16W	[H2]
	R9010	MT-GLAZE	39K	JA	1/16W	[G2]
	R9011	MT-GLAZE	27K	JA	1/16W	[H2]
	R9012	MT-GLAZE	47K	JA	1/16W	[H2]
	R9013	MT-GLAZE	47K	JA	1/16W	[H2]
	R9014	MT-GLAZE	2.2	JA	1/16W	[H2]
	R9020	MT-GLAZE	2.2	JA	1/16W	[I3]
	R9040	MT-GLAZE	1K	JA	1/16W	[G3]
	R9046	MT-GLAZE	16K	JA	1/16W	[G2]
	R9047	MT-GLAZE	33K	JA	1/16W	[G2]
	R9050	MT-GLAZE	10K	JA	1/16W	[G2]
	R9070	MT-GLAZE	3.3	JA	1/16W	[H2]
	R9098	MT-GLAZE	0.000	ZA	1/16W	[G3]
	R9130	MT-GLAZE	10	JA	1/16W	[H3]
	R9133	MT-GLAZE	68K	JA	1/16W	[H3]
	R9134	MT-GLAZE	10K	JA	1/16W	[H3]
	R9135	MT-GLAZE	100K	JA	1/16W	[H3]
	R9136	MT-GLAZE	220	JA	1/16W	[H3]
	R9138	MT-GLAZE	150	JA	1/16W	[H3]
	R9139	MT-GLAZE	10	JA	1/16W	[H3]
	R9141	MT-GLAZE	0.000	ZA	1/16W	[H2]
	R9146	MT-GLAZE	1K	JA	1/16W	[H3]
	R9148	MT-GLAZE	1.5K	JA	1/16W	[H3]
	R9150	MT-GLAZE	2.2	JA	1/16W	[I3]
	R9156	MT-GLAZE	2.2K	JA	1/16W	[I2]
	R9179	MT-GLAZE	100K	JA	1/16W	[I3]
	R9180	MT-GLAZE	10K	JA	1/16W	[I3]
	R9181	MT-GLAZE	10K	JA	1/16W	[I3]
	R9182	MT-GLAZE	1K	JA	1/16W	[I1]
	R9191	MT-FILM	2K	DU	1/16W	[I1]
	R9192	MT-GLAZE	1K	JA	1/16W	[I2]
	R9207	MT-GLAZE	47K	JA	1/16W	[J2]
	R9211	MT-GLAZE	3.9K	JA	1/16W	[H2]
	R9216	MT-GLAZE	1K	JA	1/16W	[I2]
	R9217	MT-GLAZE	330	JA	1/16W	[I2]
	R9218	MT-GLAZE	330	JA	1/16W	[I1]
	R9250	MT-GLAZE	1.5K	JA	1/16W	[G4]
	R9256	MT-GLAZE	2.7K	JA	1/16W	[I2]
	R9257	MT-GLAZE	470	JA	1/16W	[I2]
	R9334	MT-GLAZE	22K	JA	1/16W	[G4]
	R9335	MT-GLAZE	22K	JA	1/16W	[G4]
	R9336	MT-GLAZE	5.6K	JA	1/16W	[G4]
	R9337	MT-GLAZE	8.2K	JA	1/16W	[G4]
	R9338	MT-GLAZE	5.6K	JA	1/16W	[G4]
	R9339	MT-GLAZE	6.8K	JA	1/16W	[G4]
	R9341	MT-GLAZE	2.7K	JA	1/16W	[G4]
	R9342	MT-GLAZE	2.7K	JA	1/16W	[G4]
	R9343	MT-GLAZE	4.7	JA	1/16W	[F4]
	R9344	MT-GLAZE	220K	JA	1/16W	[F5]
	R9345	MT-GLAZE	0.000	ZA	1/16W	[F5]
	R9348	MT-GLAZE	2.2K	JA	1/16W	[G4]
	R9351	MT-GLAZE	5.6K	JA	1/16W	[G3]
	R9352	MT-GLAZE	6.8K	JA	1/16W	[G4]
	R9353	MT-GLAZE	1K	JA	1/16W	[G4]
	R9354	MT-GLAZE	1K	JA	1/16W	[G4]
	R9374	MT-FILM	5.6K	DU	1/16W	[H4]
	R9375	MT-GLAZE	10	JA	1/16W	[H3]
	R9376	MT-FILM	5.1K	DU	1/16W	[H3]
	R9379	MT-GLAZE	5.6K	JA	1/16W	[I4]
	R9380	MT-GLAZE	2.7K	JA	1/16W	[I4]
	R9381	MT-GLAZE	1K	JA	1/16W	[H4]
	R9383	MT-GLAZE	1K	JA	1/16W	[H4]
	R9385	MT-GLAZE	1K	JA	1/16W	[I4]
	R9390	MT-GLAZE	100K	JA	1/16W	[I4]
	R9393	MT-GLAZE	68K	JA	1/16W	[I4]
	R9394	MT-GLAZE	270K	JA	1/16W	[I4]
	R9423	MT-GLAZE	470	JA	1/16W	[G3]
	R9427	MT-GLAZE	100K	JA	1/16W	[I4]
	R9428	MT-GLAZE	100K	JA	1/16W	[I4]
	R9429	MT-GLAZE	10K	JA	1/16W	[I4]
	R9430	MT-GLAZE	10K	JA	1/16W	[I4]
	R9437	MT-GLAZE	2.7K	JA	1/16W	[I4]
	R9438	MT-GLAZE	1.8K	JA	1/16W	[I4]
	R9463	MT-GLAZE	10K	JA	1/16W	[G4]
	R9464	MT-GLAZE	100K	JA	1/16W	[G4]
	R9465	MT-GLAZE	100K	JA	1/16W	[I4]
	R9466	MT-GLAZE	100K	JA	1/16W	[I4]
◆	R9474	MT-GLAZE	0.000	ZA	1/16W	[I4]
◆	R9475	MT-GLAZE	0.000	ZA	1/16W	[I4]
	R9482	MT-GLAZE	10K	JA	1/16W	[H3]
	R9484	MT-GLAZE	10K	JA	1/16W	[H4]
	R9501	MT-GLAZE	82K	JA	1/16W	[E4]
	R9502	MT-GLAZE	820	JA	1/16W	[F4]
	R9504	MT-GLAZE	3.9K	JA	1/16W	[F4]
	R9505	MT-GLAZE	180K	JA	1/16W	[E4]
	R9506	MT-GLAZE	27K	JA	1/16W	[F4]
	R9507	MT-GLAZE	270K	JA	1/16W	[F5]
	R9510	MT-GLAZE	10K	JA	1/16W	[F5]
	R9511	MT-GLAZE	68K	JA	1/16W	[E5]
	R9512	MT-GLAZE	10K	JA	1/16W	[E5]
	R9991	MT-GLAZE	0.000	ZA	1/16W	[G2]
	R9999	MT-GLAZE	0.000	ZA	1/16W	[H3]
	T9020	DELAY LINE				[G3]
	VC902	VARACTOR DI 1SV200-11TLC				[H3]

TB2 CIRCUIT

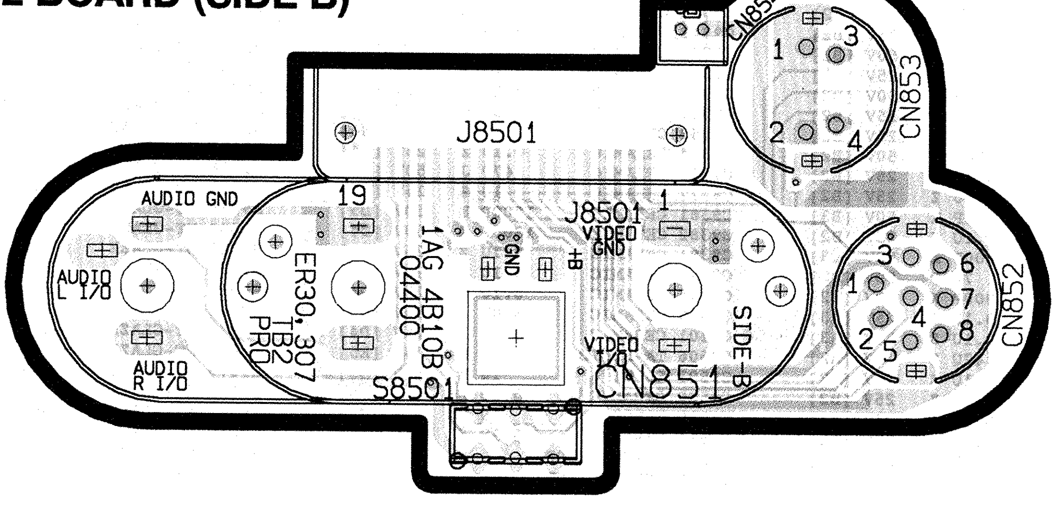

CN851
VIDEO I/O 4
VIDEO GND 3
+B 5
GND 6
AUDIO I/O 2
AUDIO GND 1
(AV TERMINAL)
CN851
1AV4J12B01200
CN852
* LCD VIDEO 1
LCD AUDIO 2
WIRE IN 3
WIRE REMOTE 4
SYNCRO EDIT 5
AUDIO GND 6
LCD VDD 7
UNREG GND 8
GND 9
J8501
1 WIRE IN *
2 VIDEO GND
3 VIDEO I/O
4 LCD VDD
5 LCD VIDEO
6 LCD AUDIO
7 WIRE REMOTE
8 SYNCRO EDIT
9 UNREG GND
10 NOT USED
11 +B
12 NOT USED
13 NOT USED
14 NOT USED
15 GND
16 NOT USED
17 NOT USED
18 AUDIO L I/O
19 AUDIO GND
TB2 CIRCUIT

TB2 BOARD (SIDE A)

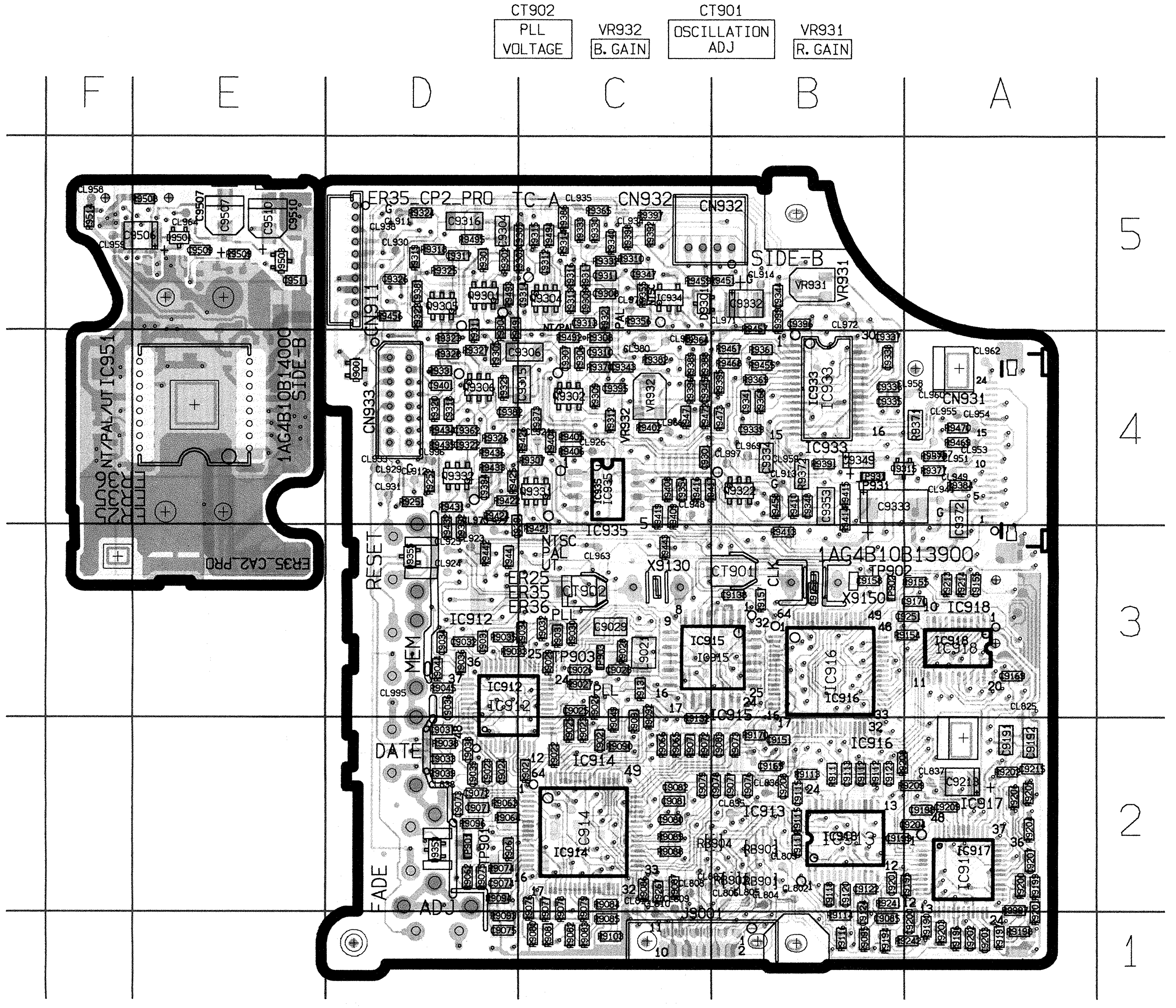

CN853
CN854
CN851
1AG4B10B
04400
CN852
SIDE-A
S8501

Ⓖ

TB2 BOARD (SIDE B)


CN854
CN853
J8501
AUDIO GND
19
AUDIO L I/O
AUDIO R I/O
ER30,307 TB2 PRO
1AG4B10B 04400
J8501
VIDEO GND
VIDEO I/O
S8501
CN851
SIDE-B
CN852
1
2
3
4
5
6
7
8

CP2/CA2 BOARD (SIDE B)



CN932
(VM-EX33P Only)

1	5V
2	F0
3	F1
4	GND

CN933

1	SCK	
2	SO	
3	SOUT3	
4	SOUT2	
5	SIN3	
6	SIN2	
7	SIN1	
8	FADE+DATE	
9	DATE BLK	
10	SINO	
11	C GND	
12	CAM C	
13	Y GND	
14	CAM Y	
15	NOT USED	←VM-EX33P
15	MF REF	←VM-EX22P VM-EX25R
16	CAM CS	

TO CP1

CN911

1	NOT USED
2	-8.5V
3	UNREG
4	+5V(S)
5	+15V
6	+5V(M)
7	GND
8	GND
9	NOT USED
10	NOT USED

TO PW1

J9001

1	CAM ADJ.3
2	LOAD
3	DA
4	EVR.CL
5	DO
6	CS
7	TEST1
8	$\overline{\text{CAM ADJ.1}}$
9	$\overline{\text{CAM ADJ.2}}$
10	ADJ.END
11	UNREG
12	VSUB
13	ID
14	PGL
15	GND
16	AGC.DET
17	CAMERA ON
18	IRIS.DET
19	GND
20	GND
21	CAMERA Y
22	CAMERA C

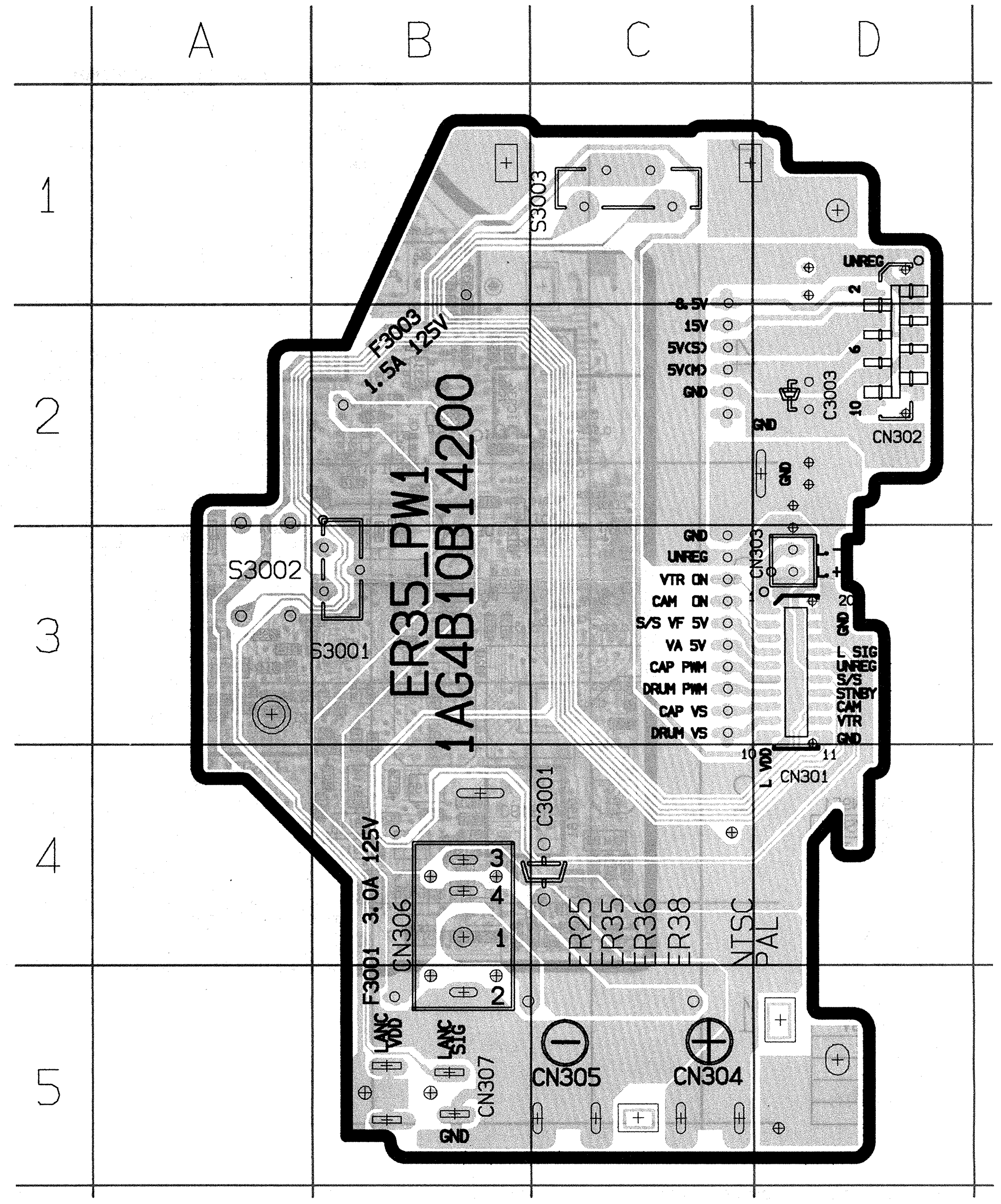
TO REMOCON

CN931

1	Z.P REF
2	Z.P GND
3	Z.P 5V
4	HALL IN(+)
5	HALL OUT(+)
6	HALL IN(-)
7	HALL OUT(-)
8	CONT-
9	CONT+
10	DRIVE-
11	DRIVE+
12	SENCS
13	FS 5V
14	CS
15	SK
16	DO
17	DI
18	FS GND
19	A
20	$\overline{B}$
21	$\overline{A}$
22	B
23	ZOOM+
24	ZOOM-

TO LENS

PW1 BOARD (SIDE B)



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LEADLESS COMPONENT PARTS LOCATION GUIDE
CP2/CA2 BOARD (SIDE B)

◆ :VM-EX22P, 25R Only ★ :VM-EX33P Only

	C9021	CERAMIC	0.01U K	25V	[C2]
	C9023	CERAMIC	0.1U Z	25V	[D2]
	C9024	CERAMIC	0.1U Z	25V	[D2]
	C9025	CERAMIC	0.1U Z	25V	[C3]
	C9026	CERAMIC	0.01U K	25V	[C3]
	C9028	CERAMIC	100P J	50V	[C3]
	C9029	CERAMIC	1U Z	16V	[C3]
	C9031	CERAMIC	0.1U Z	25V	[D3]
	C9032	CERAMIC	0.1U Z	25V	[D3]
	C9034	CERAMIC	10P D	50V	[D3]
	C9036	CERAMIC	0.1U Z	25V	[D3]
	C9037	CERAMIC	0.1U Z	25V	[D2]
	C9038	CERAMIC	0.1U Z	25V	[D2]
	C9039	CERAMIC	0.1U Z	25V	[D2]
	C9071	CERAMIC	1000P K	50V	[D2]
	C9072	CERAMIC	0.1U Z	25V	[D2]
	C9073	CERAMIC	1000P K	50V	[D2]
	C9074	CERAMIC	0.1U Z	25V	[D2]
	C9075	CERAMIC	1000P K	50V	[D1]
	C9076	CERAMIC	0.1U Z	25V	[B2]
	C9077	CERAMIC	0.1U Z	25V	[B2]
	C9078	CERAMIC	0.1U Z	25V	[B2]
	C9079	CERAMIC	0.1U Z	25V	[C2]
	C9080	CERAMIC	0.1U Z	25V	[C2]
	C9081	CERAMIC	0.1U Z	25V	[C2]
	C9082	CERAMIC	0.1U Z	25V	[C2]
	C9083	CERAMIC	0.1U Z	25V	[B2]
	C9085	CERAMIC	1000P K	50V	[B1]
	C9111	CERAMIC	0.022U Z	25V	[B2]
	C9112	CERAMIC	18P J	50V	[B2]
	C9115	CERAMIC	0.1U Z	25V	[B2]
	C9118	CERAMIC	0.1U Z	25V	[B2]
	C9120	CERAMIC	1000P K	50V	[B2]
	C9122	CERAMIC	0.1U Z	25V	[B2]
	C9123	CERAMIC	0.1U Z	25V	[B2]
	C9138	CERAMIC	1000P K	50V	[B3]
	C9151	CERAMIC	0.1U Z	25V	[B2]
	C9153	CERAMIC	1000P K	50V	[B3]
	C9158	CERAMIC	7P D	50V	[B3]
	C9165	CERAMIC	1000P K	50V	[B2]
	C9169	CERAMIC	0.1U Z	25V	[A3]
	C9170	CERAMIC	0.1U Z	25V	[A3]
	C9191	CERAMIC	0.47U Z	16V	[A2]
	C9198	CERAMIC	0.1U Z	25V	[A2]
	C9199	CERAMIC	0.1U Z	25V	[B2]
	C9200	CERAMIC	0.1U Z	25V	[A1]
	C9201	CERAMIC	0.1U Z	25V	[B2]
	C9202	CERAMIC	0.1U Z	25V	[A1]
	C9203	CERAMIC	0.1U Z	25V	[A1]
	C9204	CERAMIC	1000P K	50V	[A2]
	C9207	CERAMIC	0.1U Z	25V	[A2]
	C9208	CERAMIC	1000P K	50V	[B2]
	C9215	CERAMIC	0.1U Z	25V	[A2]
	C9301	CERAMIC	0.1U Z	25V	[C4]
	C9304	CERAMIC	0.1U Z	25V	[D5]
	C9305	CERAMIC	0.1U Z	25V	[C5]
	C9306	CERAMIC	1U Z	16V	[C4]
	C9307	CERAMIC	0.1U Z	25V	[C4]
	C9308	CERAMIC	2200P K	50V	[C5]
	C9309	CERAMIC	2200P K	50V	[C5]
	C9310	CERAMIC	0.1U Z	25V	[C4]
	C9311	CERAMIC	270P J	50V	[C5]
	C9312	CERAMIC	270P J	50V	[C5]
	C9313	CERAMIC	0.1U Z	25V	[C5]
	C9314	CERAMIC	0.1U Z	25V	[C5]
	C9315	CERAMIC	1U Z	16V	[C4]
	C9316	CERAMIC	1U Z	16V	[D5]
	C9317	CERAMIC	0.01U K	25V	[D5]
	C9318	CERAMIC	0.01U K	25V	[D4]
	C9322	CERAMIC	0.1U Z	25V	[D4]
	C9326	CERAMIC	0.01U K	25V	[D5]
	C9332	TA-SOLID	10U M	6.3V	[B5]
	C9333	TA-SOLID	15U M	16V	[B4]
	C9334	CERAMIC	0.1U Z	25V	[B4]
	C9335	CERAMIC	3300P K	50V	[B4]
	C9336	CERAMIC	0.01U K	25V	[B4]
	C9337	CERAMIC	0.01U K	25V	[B4]
	C9338	CERAMIC	0.01U K	25V	[B4]
	C9339	CERAMIC	0.01U K	25V	[B4]
	C9341	CERAMIC	0.01U K	25V	[B4]
	C9343	CERAMIC	0.1U Z	25V	[C4]
	C9344	CERAMIC	0.1U Z	25V	[B5]
	C9347	CERAMIC	0.1U Z	25V	[C5]
	C9348	CERAMIC	0.1U Z	25V	[B4]
	C9349	TA-SOLID	3.3U M	6.3V	[B4]
	C9353	CERAMIC	1U Z	16V	[B4]
	C9354	CERAMIC	0.1U Z	25V	[C4]
	C9362	CERAMIC	47P J	50V	[D4]
	C9372	CERAMIC	1U Z	16V	[A4]
	C9381	CERAMIC	1800P K	50V	[D5]
	C9382	CERAMIC	1800P K	50V	[D4]
	C9391	CERAMIC	0.1U Z	25V	[D3]
	C9392	CERAMIC	0.1U Z	25V	[D3]
	C9394	CERAMIC	0.1U Z	25V	[D4]
	C9396	CERAMIC	330P J	50V	[B5]
◆	C9401	CERAMIC	0.1U Z	25V	[D4]
	C9506	TA-SOLID	1U M	35V	[E5]
	C9507	ELECT	1U M	50V	[E5]
	C9509	CERAMIC	0.1U Z	25V	[E5]
	C9510	ELECT	1U M	50V	[E5]
	C9511	CERAMIC	0.1U Z	25V	[E5]
	CT901	TRIMMER,20PF			[B3]
	CT902	TRIMMER,30PF			[C3]
	D9001	DIODE MA143A-TX			[D4]
	D9301	DIODE MA141K-TX			[C5]
	D9353	DIODE MA141WK-TX			[D2]
	D9355	DIODE MA141WK-TX			[D3]
	D9501	DIODE MA141WA-TX			[E5]
	D9503	DIODE DCJ010-TL			[E5]
	IC912	IC CXA1392R-T4			[D3]
	IC913	IC CXL1518N-T4			[B2]
	IC914	IC CXA1391R-T6			[C2]
	IC915	IC CXD1159Q-T4			[B3]
	IC916	IC CXD1257AR-T6			[B3]
	IC917	IC CXA1390AR-T4			[A2]
	IC918	IC CXD1250N-T4			[A3]
	IC933	IC MPC17A85VM-EL			[B4]
	IC934	IC SC14S71FEL			[C5]
	IC935	IC NJM3414M-T1			[C4]
	L9021	HF CHOKE			[C3]
	Q9301	TR XN4401-(TW)			[D5]
	Q9302	TR XN4501-(TW)			[C4]
	Q9304	TR XN4501-(TW)			[C5]
	Q9305	TR XN4501-(TW)			[D5]
	Q9306	TR XN4501-(TW)			[D4]
	Q9315	TR DTC115EU-T106			[A4]
	Q9322	TR XN4501-(TW)			[B4]
	Q9331	TR XN4501-(TW)			[C4]
	Q9332	TR XN4501-(TW)			[D4]
	R9022	MT-GLAZE	0.000 ZA	1/16W	[C2]
	R9025	MT-GLAZE	82K JA	1/16W	[C2]
	R9026	MT-GLAZE	10K JA	1/16W	[C3]
	R9027	MT-GLAZE	1K JA	1/16W	[C3]
	R9028	MT-GLAZE	1.8K JA	1/16W	[C3]
	R9029	MT-GLAZE	12K JA	1/16W	[C3]
	R9030	MT-GLAZE	16K JA	1/16W	[C3]
	R9031	MT-GLAZE	18K JA	1/16W	[C3]
	R9032	MT-GLAZE	15K JA	1/16W	[C3]
	R9033	MT-GLAZE	3.3K JA	1/16W	[D3]
	R9034	MT-GLAZE	33K JA	1/16W	[C3]
	R9035	MT-GLAZE	47K JA	1/16W	[D3]
	R9036	MT-GLAZE	10K JA	1/16W	[D3]
	R9038	MT-GLAZE	18K JA	1/16W	[D2]
	R9039	MT-GLAZE	33K JA	1/16W	[D2]
	R9044	MT-GLAZE	27K JA	1/16W	[D3]
	R9045	MT-GLAZE	18K JA	1/16W	[D3]
	R9071	MT-FILM	12K DU	1/16W	[C2]
	R9072	MT-FILM	27K DU	1/16W	[C2]
	R9073	MT-GLAZE	22K JA	1/16W	[B2]
	R9074	MT-GLAZE	10K JA	1/16W	[D2]
	R9075	MT-GLAZE	39K JA	1/16W	[D2]
	R9076	MT-GLAZE	27K JA	1/16W	[C2]
	R9077	MT-GLAZE	24K JA	1/16W	[C2]
	R9078	MT-GLAZE	56K JA	1/16W	[C2]
	R9079	MT-GLAZE	56K JA	1/16W	[C2]
	R9081	MT-GLAZE	0.000 ZA	1/16W	[C1]
	R9082	MT-GLAZE	15K JA	1/16W	[C1]
	R9083	MT-GLAZE	15K JA	1/16W	[C1]
	R9084	MT-GLAZE	12K JA	1/16W	[C2]
	R9085	MT-GLAZE	27K JA	1/16W	[C1]
	R9088	MT-GLAZE	22K JA	1/16W	[C2]
	R9089	MT-GLAZE	22K JA	1/16W	[C2]
	R9090	MT-GLAZE	39K JA	1/16W	[C2]
	R9091	MT-GLAZE	15K JA	1/16W	[C2]
	R9092	MT-GLAZE	33K JA	1/16W	[C3]
	R9096	MT-GLAZE	3.3K JA	1/16W	[D2]
	R9103	MT-GLAZE	820 JA	1/16W	[C1]
	R9111	MT-GLAZE	220 JA	1/16W	[B2]
	R9112	MT-GLAZE	220 JA	1/16W	[B2]
	R9115	MT-GLAZE	2.2 JA	1/16W	[B2]
	R9131	MT-GLAZE	100 JA	1/16W	[C3]
	R9132	MT-GLAZE	1M JA	1/16W	[C2]
	R9155	MT-GLAZE	2.2K JA	1/16W	[A3]
	R9157	MT-GLAZE	1K JA	1/16W	[B3]
	R9170	MT-GLAZE	0.000 ZA	1/16W	[B2]
	R9190	MT-GLAZE	3.3 JA	1/16W	[A1]
	R9194	MT-GLAZE	10K JA	1/16W	[B1]
	R9195	MT-GLAZE	27K JA	1/16W	[A2]
	R9196	MT-GLAZE	220 JA	1/16W	[A1]
	R9197	MT-GLAZE	18K JA	1/16W	[A1]
	R9198	MT-GLAZE	27K JA	1/16W	[A1]
	R9199	MT-GLAZE	27K JA	1/16W	[A2]
	R9200	MT-GLAZE	270 JA	1/16W	[A2]
	R9201	MT-GLAZE	39K JA	1/16W	[A2]
	R9202	MT-GLAZE	0.000 ZA	1/16W	[A2]
	R9204	MT-GLAZE	6.8K JA	1/16W	[A2]
	R9205	MT-GLAZE	330K JA	1/16W	[A2]
	R9206	MT-GLAZE	12K JA	1/16W	[A2]
	R9208	MT-GLAZE	33K JA	1/16W	[B2]
	R9209	MT-GLAZE	12K JA	1/16W	[A2]
	R9267	MT-GLAZE	1K JA	1/16W	[C2]
	R9301	MT-GLAZE	39K JA	1/16W	[D5]
	R9302	MT-GLAZE	2.7K JA	1/16W	[D5]
	R9303	MT-GLAZE	1.5K JA	1/16W	[C5]
	R9304	MT-GLAZE	22K JA	1/16W	[D5]
	R9305	MT-GLAZE	1.2K JA	1/16W	[D4]
	R9306	MT-GLAZE	1K JA	1/16W	[C4]
	R9307	MT-GLAZE	1K JA	1/16W	[C4]
	R9308	MT-GLAZE	560 JA	1/16W	[C4]
	R9309	MT-GLAZE	560 JA	1/16W	[C4]
	R9310	MT-GLAZE	1M JA	1/16W	[C5]
	R9311	MT-GLAZE	0.000 ZA	1/16W	[D4]
	R9312	MT-GLAZE	2.2K JA	1/16W	[C4]
	R9313	MT-GLAZE	560 JA	1/16W	[C5]
	R9314	MT-GLAZE	560 JA	1/16W	[C5]
	R9315	MT-GLAZE	2.7K JA	1/16W	[C5]
	R9316	MT-GLAZE	1K JA	1/16W	[C5]
	R9317	MT-GLAZE	1K JA	1/16W	[C5]
	R9318	MT-GLAZE	5.6K JA	1/16W	[D5]
	R9319	MT-GLAZE	1.5K JA	1/16W	[D5]
	R9320	MT-GLAZE	1.5K JA	1/16W	[D4]
	R9321	MT-GLAZE	2.7K JA	1/16W	[C5]
	R9322	MT-GLAZE	2.2K JA	1/16W	[D5]
	R9323	MT-GLAZE	1K JA	1/16W	[D4]
	R9324	MT-GLAZE	470 JA	1/16W	[D5]
	R9325	MT-GLAZE	1.5K JA	1/16W	[D5]
	R9326	MT-GLAZE	2.2K JA	1/16W	[D4]
	R9327	MT-GLAZE	1K JA	1/16W	[D4]
	R9328	MT-GLAZE	5.6K JA	1/16W	[D4]
	R9329	MT-GLAZE	470 JA	1/16W	[D4]
	R9330	MT-GLAZE	8.2K JA	1/16W	[C5]
	R9331	MT-GLAZE	1.5K JA	1/16W	[D4]
	R9332	MT-GLAZE	3.3K JA	1/16W	[C5]
	R9333	MT-GLAZE	3.3K JA	1/16W	[C5]
	R9340	MT-GLAZE	8.2K JA	1/16W	[C5]
	R9356	MT-GLAZE	0.000 ZA	1/16W	[C5]
	R9361	MT-GLAZE	6.8K JA	1/16W	[B4]
	R9364	MT-GLAZE	100K JA	1/16W	[C4]
	R9365	MT-GLAZE	1K JA	1/16W	[C5]
	R9368	MT-GLAZE	0.000 ZA	1/16W	[B4]
	R9369	MT-GLAZE	0.000 ZA	1/16W	[B4]
	R9370	MT-GLAZE	470 JA	1/16W	[C4]
	R9371	MT-GLAZE	3.9 JA	1/10W	[A4]
	R9372	MT-GLAZE	3.9 JA	1/10W	[B4]
	R9373	MT-FILM	8.2K DU	1/16W	[C4]
	R9377	MT-GLAZE	100K JA	1/16W	[A4]
	R9378	MT-GLAZE	56K JA	1/16W	[A4]
	R9382	MT-GLAZE	1K JA	1/16W	[C4]
	R9384	MT-GLAZE	1K JA	1/16W	[A4]
	R9388	MT-GLAZE	33K JA	1/16W	[C4]
	R9389	MT-GLAZE	68K JA	1/16W	[C4]
	R9391	MT-GLAZE	68K JA	1/16W	[B4]
	R9392	MT-GLAZE	33K JA	1/16W	[C5]
	R9395	MT-GLAZE	220K JA	1/16W	[B4]
	R9396	MT-GLAZE	270K JA	1/16W	[C4]
	R9397	MT-GLAZE	100K JA	1/16W	[C5]
	R9398	MT-GLAZE	330K JA	1/16W	[C5]
	R9399	MT-GLAZE	47K JA	1/16W	[B5]
	R9402	MT-GLAZE	39K JA	1/16W	[C4]
	R9404	MT-GLAZE	4.7K JA	1/16W	[C4]
	R9405	MT-GLAZE	4.7K JA	1/16W	[C4]
	R9406	MT-GLAZE	4.7K JA	1/16W	[C4]
	R9408	MT-GLAZE	680K JA	1/16W	[C4]
	R9409	MT-GLAZE	560 JA	1/16W	[C4]
	R9413	MT-GLAZE	100K JA	1/16W	[B3]
	R9414	MT-GLAZE	18K JA	1/16W	[B4]
	R9415	MT-GLAZE	150K JA	1/16W	[B4]
	R9416	MT-GLAZE	5.6K JA	1/16W	[C4]
	R9417	MT-GLAZE	15K JA	1/16W	[C4]
	R9419	MT-GLAZE	10K JA	1/16W	[C4]
	R9421	MT-GLAZE	2.7K JA	1/16W	[C3]
	R9422	MT-GLAZE	3.9K JA	1/16W	[D4]
	R9424	MT-GLAZE	560 JA	1/16W	[D4]
	R9425	MT-GLAZE	560 JA	1/16W	[D4]
	R9426	MT-GLAZE	2.2K JA	1/16W	[C4]
	R9431	MT-GLAZE	1.2K JA	1/16W	[D4]
	R9432	MT-GLAZE	3.9K JA	1/16W	[D3]
	R9433	MT-GLAZE	470 JA	1/16W	[D4]
	R9434	MT-GLAZE	560 JA	1/16W	[D4]
	R9435	MT-GLAZE	560 JA	1/16W	[D4]
	R9436	MT-GLAZE	2.2K JA	1/16W	[D4]
	R9441	MT-GLAZE	1K JA	1/16W	[D3]
	R9442	MT-GLAZE	1K JA	1/16W	[D3]
	R9443	MT-GLAZE	1K JA	1/16W	[C3]
★	R9451	MT-GLAZE	0.000 ZA	1/16W	[B5]
	R9456	MT-GLAZE	0.000 ZA	1/16W	[D5]
	R9457	MT-GLAZE	47K JA	1/16W	[B5]
★	R9458	MT-GLAZE	33K JA	1/16W	[B4]
★	R9459	MT-GLAZE	33K JA	1/16W	[C5]
	R9467	MT-GLAZE	100K JA	1/16W	[B4]
	R9468	MT-GLAZE	100K JA	1/16W	[B4]
	R9469	MT-GLAZE	1K JA	1/16W	[A4]
	R9470	MT-GLAZE	1K JA	1/16W	[A4]
	R9471	MT-GALZE	3.3K JA	1/16W	[C4]
	R9472	MT-GALZE	3.3K JA	1/16W	[C4]
	R9473	MT-GALZE	3.3K JA	1/16W	[B4]
★	R9491	MT-GLAZE	0.000 ZA	1/16W	[D5]
	R9492	MT-GLAZE	0.000 ZA	1/16W	[C4]
	R9508	MT-GLAZE	100K JA	1/16W	[E5]
	R9509	MT-GLAZE	1M JA	1/16W	[E5]
	RB901	R-NETWORK	470X4	0.063W	[B2]
	RB902	R-NETWORK	470X2	0.063W	[B2]
	RB903	R-NETWORK	10KX4	0.063W	[B2]
	RB904	R-NETWORK	10KX2	0.063W	[B2]
	TP903	TERMINAL,TESTPIN			[C3]
	VR931	SVR 100K			[B5]
	VR932	SVR 100K			[C4]

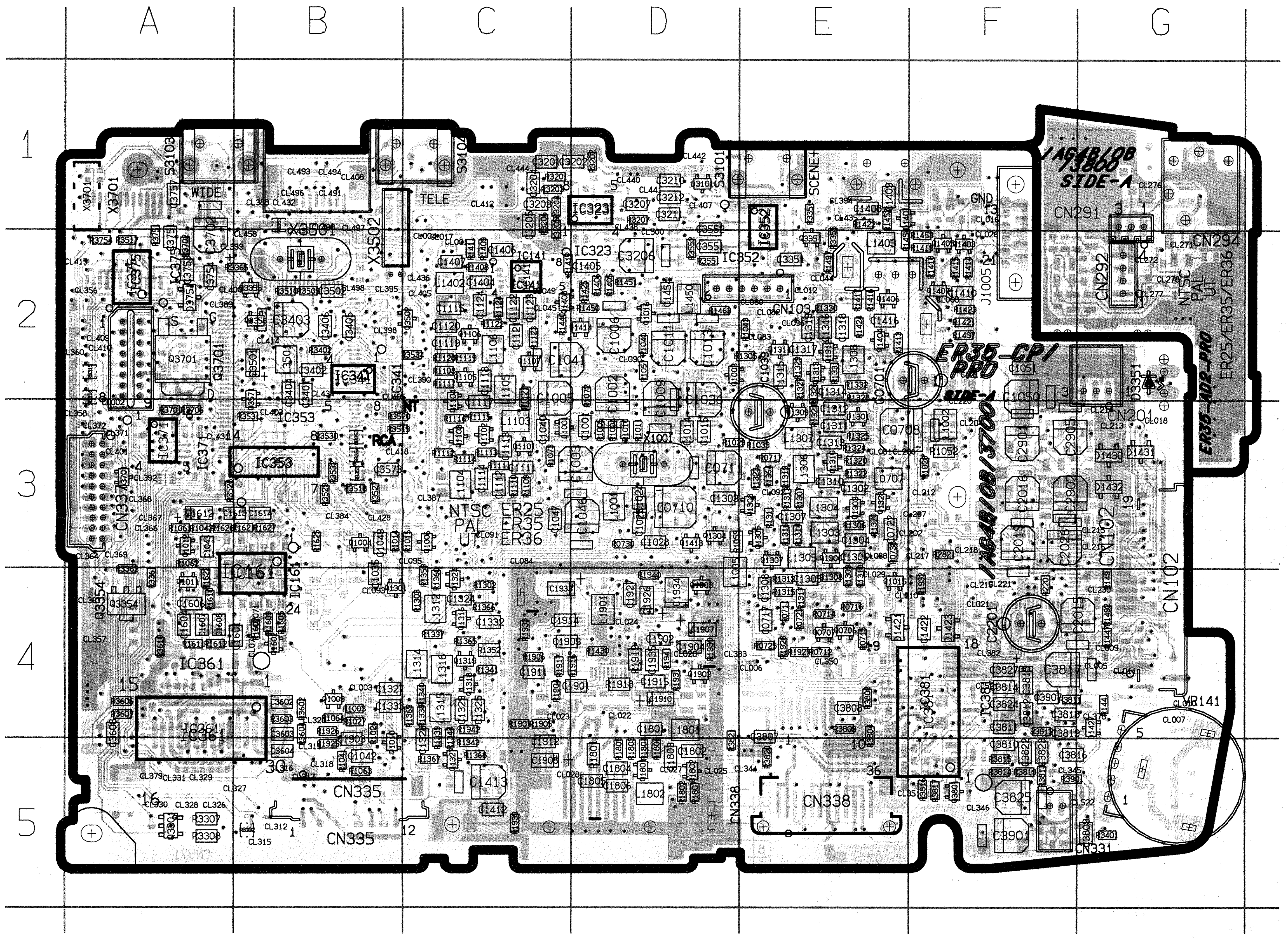
CP1/AD2 BOARD (SIDE A)

CN337	
1	VIDEO LIGHT-
2	VTR ON
3	CAM ON
4	S/S VF 5V
5	VA 5V
6	CAP PWM
7	DRUM PWM
8	CAP VS
9	DRUM VS
10	LANC VDD
11	PW SW GND
12	$\overline{\text{VTR PW SW}}$
13	$\overline{\text{CAM PW SW}}$
14	$\overline{\text{STBY SW}}$
15	$\overline{\text{S/S SW}}$
16	UNREG
17	LANC SIG
18	GND
19	GND
20	UNREG GND

TO PW1

CN335	
1	$\overline{\text{CASS IN SW}}$
2	MP 5V
3	$\overline{\text{REEL LED}}$
4	$\overline{\text{REC PROOF}}$
5	GND
6	MP/$\overline{\text{ME}}$
7	$\overline{\text{Hi-8}}$(MP/HG)
8	T REEL
9	TAPE END
10	S REEL
11	$\overline{\text{TAPE LED}}$
12	TAPE TOP

TO MECHA



CN294	
1	EXT MIC GND
2	EXT MIC
6	INT MIC

J1005	
13	S/S 5V
14	$\overline{\text{TEST}}$
15	NOT USED
16	NOT USED
17	NOT USED
18	NOT USED
19	NOT USED
20	NOT USED
21	AUDIO L IN
22	NOT USED

TO SY1

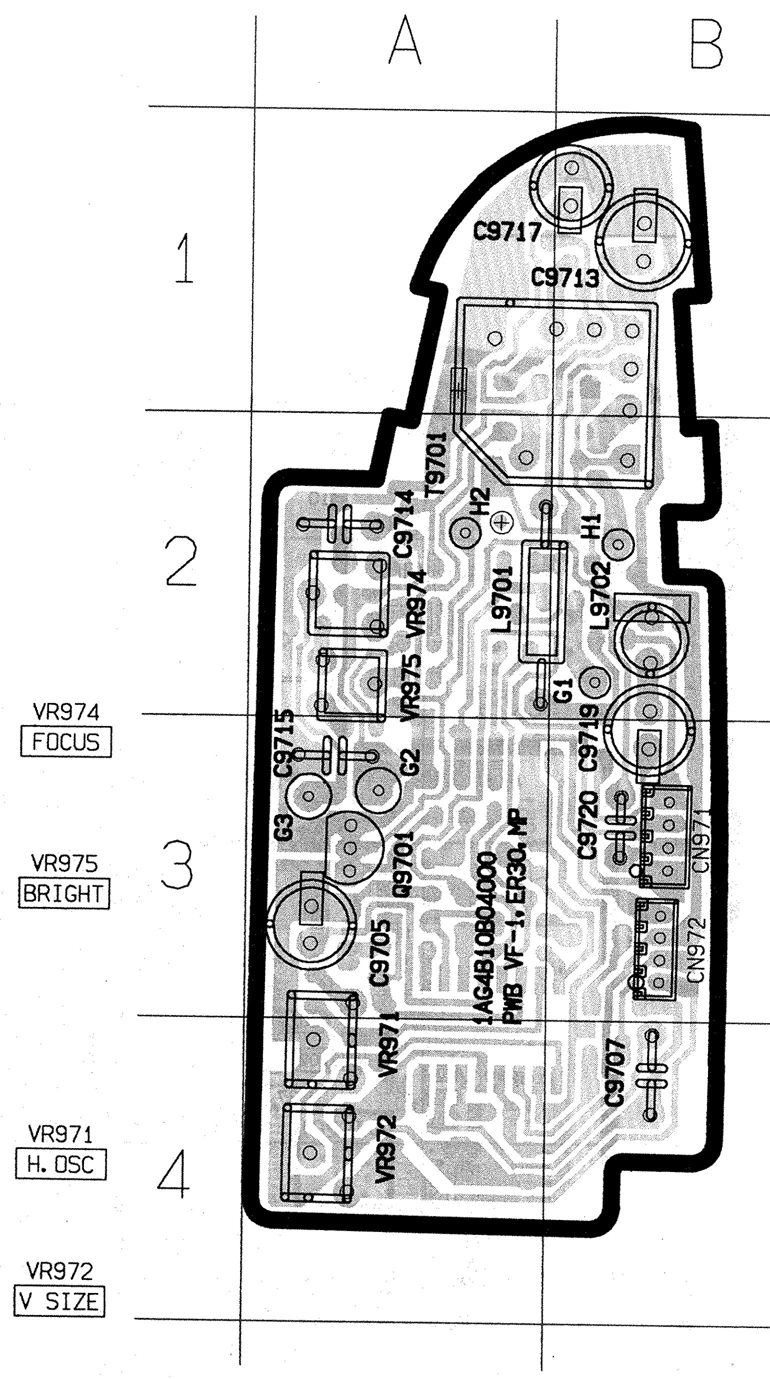
CN102	
1	AUDIO GND
2	AUDIO I/O
3	NOT USED
4	LINE IN/$\overline{\text{OUT}}$
5	GND
6	VIDEO OUT1
7	NOT USED
8	NOT USED
9	+B
10	VIDEO OUT2
11	UNREG GND
12	SYNCRO EDIT
13	WIRE REMOTE
14	LCD AUDIO
15	LCD VIDEO
16	LCD VDD
17	VIDEO I/O
18	VIDEO GND
19	WIRE IN

TO TB2

CN331	
1	LI B
2	LI GND

TO LI BATTERY

VF1 BOARD (SIDE A)



LEADLESS COMPONENT PARTS LOCATION GUIDE
CP1/AD2 BOARD (SIDE A)

◆:VM-EX22P, 25R Only

C0708	ELECT 47U M 4V	[E3]
C0710	ELECT 47U M 4V	[D3]
C0711	ELECT 22U M 6.3V	[D3]
C0717	CERAMIC 10P D 50V	[E4]
C1001	CERAMIC 220P J 50V	[D3]
C1002	ELECT 22U M 6.3V	[D3]
C1005	ELECT 10U M 16V	[C3]
C1006	ELECT 10U M 16V	[D2]
C1009	ELECT 10U M 16V	[D3]
C1011	ELECT 22U M 6.3V	[D2]
C1013	ELECT 10U M 16V	[D2]
C1014	CERAMIC 220P J 50V	[D3]
C1015	CERAMIC 0.47U Z 25V	[D3]
C1028	CERAMIC 1000P K 50V	[D3]
C1035	CERAMIC 100P J 50V	[B4]
C1040	CERAMIC 1U Z 16V	[C3]
C1041	ELECT 10U M 16V	[C2]
C1042	CERAMIC 1000P K 50V	[B5]
C1043	CERAMIC 330P J 50V	[A3]
C1046	ELECT 22U M 6.3V	[D3]
C1050	ELECT 22U M 6.3V	[F3]
C1051	CERAMIC 1U Z 16V	[F2]
C1111	CERAMIC 120P J 50V	[C3]
C1112	CERAMIC 100P J 50V	[C3]
C1113	CERAMIC 27P J 50V	[C3]
C1114	CERAMIC 22P J 50V	[C3]
C1115	CERAMIC 0.1U Z 25V	[C2]
C1117	CERAMIC 15P J 50V	[C3]
C1118	CERAMIC 47P J 50V	[C2]
C1119	CERAMIC 100P J 50V	[C2]
C1120	CERAMIC 47P J 50V	[C2]
C1121	CERAMIC 39P J 50V	[C2]
C1122	CERAMIC 10P D 50V	[C2]
C1123	CERAMIC 10P D 50V	[C2]
C1124	CERAMIC 68P J 50V	[C2]
C1302	CERAMIC 330P J 50V	[E3]
C1304	CERAMIC 180P J 50V	[E3]
C1305	CERAMIC 39P J 50V	[E4]
C1306	CERAMIC 15P J 50V	[E3]
C1307	CERAMIC 75P J 50V	[E3]
C1308	CERAMIC 0.01U K 50V	[E4]
C1310	CERAMIC 0.01U K 50V	[E3]
C1311	CERAMIC 15P J 50V	[E3]
C1312	CERAMIC 0.01U K 50V	[E3]
C1313	CERAMIC 2200P K 50V	[E3]
C1314	CERAMIC 5P C 50V	[E3]
C1315	CERAMIC 5P C 50V	[E2]
C1317	CERAMIC 18P J 50V	[E2]
C1318	CERAMIC 27P J 50V	[E2]
C1319	CERAMIC 0.1U Z 25V	[E2]
C1324	CERAMIC 270P J 50V	[C4]
C1325	CERAMIC 0.1U Z 25V	[C4]
C1327	CERAMIC 36P J 50V	[B4]
C1328	CERAMIC 270P J 50V	[C5]
C1329	CERAMIC 0.1U Z 25V	[C4]
C1332	CERAMIC 0.1U Z 25V	[C4]
C1333	CERAMIC 2200P K 50V	[B4]
C1410	CERAMIC 1000P K 50V	[F2]
C1412	CERAMIC 0.01U K 50V	[C5]
C1604	CERAMIC 1U Z 16V	[A4]
C1607	CERAMIC 1000P K 50V	[A4]
C1608	CERAMIC 1000P K 50V	[A4]
C1612	TA-SOLID 4.7U M 4V	[A3]
C1613	CERAMIC 1000P K 50V	[B3]
C1614	CERAMIC 110P J 50V	[B3]
C1801	CERAMIC 0.01U K 50V	[D4]
C1802	CERAMIC 150P J 50V	[D5]
C1803	CERAMIC 150P J 50V	[D5]
C1804	CERAMIC 100P J 50V	[D5]
C1805	CERAMIC 0.1U Z 25V	[D5]
C1902	CERAMIC 1000P K 50V	[D4]
C1903	CERAMIC 1000P K 50V	[B5]
C1904	CERAMIC 4700P K 50V	[D4]
C1907	TA-SOLID 6.8U M 6.3V	[D4]
C1908	TA-SOLID 6.8U M 6.3V	[C5]
C1910	TA-SOLID 6.8U M 6.3V	[D4]
C1914	CERAMIC 0.01U K 50V	[C4]
C1927	CERAMIC 0.1U Z 25V	[D4]
C1933	TA-SOLID 6.8U M 6.3V	[C4]
C1935	CERAMIC 68P J 50V	[D4]
C2015	ELECT 10U M 16V	[G4]
C2016	ELECT 1UM 50V	[F3]
C2019	ELECT 4.7U M 25V	[F3]
C2026	ELECT 4.7U M 25V	[F3]
C2901	ELECT 22U M 6.3V	[F3]
C2902	ELECT 10U M 16V	[F3]
C2905	ELECT 10U M 16V	[F3]
C3201	CERAMIC 1000P K 50V	[C1]
C3202	CERAMIC 1U Z 16V	[D1]
C3203	CERAMIC 2200P K 50V	[C1]
C3204	CERAMIC 1U Z 16V	[C1]
C3205	CERAMIC 100P J 50V	[C2]
C3206	ELECT 22U M 6.3V	[D2]
C3207	CERAMIC 0.1U Z 25V	[D1]
C3211	CERAMIC 100P J 50V	[D1]
C3351	CERAMIC 0.1U Z 25V	[E2]
C3401	CERAMIC 1U Z 16V	[B3]
C3402	CERAMIC 0.1U Z 25V	[B2]
C3403	ELECT 22U M 6.3V	[B2]
C3404	CERAMIC 0.1U Z 25V	[B3]
C3405	CERAMIC 0.1U Z 25V	[B2]
C3406	CERAMIC 0.1U Z 25V	[B2]
C3501	TA-SOLID 4.7U M 6.3V	[B2]
C3502	CERAMIC 0.01U K 50V	[B2]
C3551	CERAMIC 0.1U Z 25V	[D2]
C3552	CERAMIC 1U Z 16V	[D2]
C3573	CERAMIC 0.1U Z 25V	[B3]
C3602	CERAMIC 0.1U Z 25V	[B4]
C3603	CERAMIC 0.1U Z 25V	[B5]
C3604	CERAMIC 0.1U Z 25V	[B5]
C3608	CERAMIC 0.1U Z 25V	[A5]
C3702	ELECT 10U M 16V	[A2]
C3751	CERAMIC 0.047U Z 25V	[A2]
C3753	CERAMIC 1000P K 50V	[A2]
C3754	CERAMIC 1000P K 50V	[A2]
C3757	CERAMIC 1U Z 16V	[A1]
C3808	CERAMIC 1U Z 16V	[E4]
C3809	CERAMIC 0.1U Z 25V	[G5]
C3810	CERAMIC 0.033U K 25V	[F5]
C3811	CERAMIC 0.033U K 25V	[F4]
C3812	CERAMIC 0.033U K 25V	[F4]
C3814	CERAMIC 0.068U Z 25V	[F4]
C3815	TA-SOLID 1U M 16V	[F4]
C3816	CERAMIC 1U Z 16V	[F5]
C3817	ELECT 22U M 6.3V	[F4]
C3818	CERAMIC 0.1U Z 25V	[F4]
C3822	CERAMIC 0.1U Z 25V	[F5]
C3824	CERAMIC 0.1U Z 25V	[F4]
C3825	ELECT 10U M 16V	[F5]
C3901	ELECT 22U M 6.3V	[F5]
C3907	CERAMIC 0.1U Z 25V	[F4]
D1001	DIODE DSH015-TL	[C3]
D1301	DIODE 1SS302-TE85L	[E3]
D1401	DIODE DCF015-TL	[E1]
◆D1427	DIODE MA141WK-TX	[G4]
D1430	ZENER DIODE MA3082WA-TX	[G3]
D1431	ZENER DIODE MA3082WA-TX	[G3]
D1432	ZENER DIODE MA3082WA-TX	[G3]
D3101	DIODE MA141WK-TX	[D1]
D3701	DIODE MA141WK-TX	[A3]
D3751	ZENER DIODE MA3082WA-TX	[A2]
IC161	IC CXA1203N-T4	[B4]
IC323	IC BA7046F-T1	[D1]
IC341	IC S-8420BF-T1	[B2]
IC352	IC LA6358NM-TP-T1	[E2]
IC353	IC BU4066BF-T1	[B3]
IC361	IC LB1881MMT-TP-T1	[A4]
IC371	IC LA6393M-TP-T1	[A3]
IC375	IC TL1596DB-T1	[A2]
IC381	IC LB1885M-A-TP-T1	[F4]
L1103	COIL,INDUCTOR 10U J	[C3]
L1104	COIL,INDUCTOR 33U J	[C3]
L1105	COIL,INDUCTOR 4.7U J	[C2]
L1106	COIL,INDUCTOR 33U J	[C2]
L1303	COIL,INDUCTOR 68U J	[E3]
L1304	COIL,INDUCTOR 150U J	[E3]
L1305	COIL,INDUCTOR 8.2U J	[E3]
L1306	COIL,INDUCTOR 10U J	[E3]
L1307	HF CHOKE	[E3]
L1308	COIL,INDUCTOR 10U J	[E2]
L1312	HF CHOKE	[C4]
L1314	COIL,INDUCTOR 330UH J	[C4]
L1315	HF CHOKE	[C4]
L1316	COIL,INDUCTOR 470U J	[C4]
L1801	COIL,INDUCTOR 10U J	[D5]
L1901	RF CHOKE	[D4]
L3501	COIL,INDUCTOR 47UK	[B2]
Q0706	TR 2SC4211-6-TL	[E4]
Q0707	TR 2SB1218A-R-TX	[E4]
Q1003	TR DTC144EU-T106	[D2]
Q1004	TR 2SC4211-6-TL	[B3]
Q1006	TR 2SC4211-6-TL	[C3]
Q1009	TR 2SC4211-6-TL	[B4]
Q1011	TR DTA144EU-T106	[A4]
Q1012	TR 2SC4211-6-TL	[A3]
Q1015	TR 2SC4211-6-TL	[E4]
Q1016	TR 2SB1218A-R-TX	[D2]
Q1101	TR 2SC4211-6-TL	[C3]
Q1102	TR 2SC4211-6-TL	[C3]
Q1103	TR 2SC4211-6-TL	[C3]
Q1104	TR 2SC4211-6-TL	[C3]
Q1105	TR 2SC4211-6-TL	[C2]
Q1106	TR 2SC4211-6-TL	[C2]
Q1107	TR 2SC4211-6-TL	[C2]
Q1301	TR 2SC4211-6-TL	[B4]
Q1303	TR DTC144EU-T106	[E3]
Q1306	TR 2SC4211-6-TL	[E3]
Q1307	TR 2SC4211-6-TL	[E4]
Q1309	TR DTA144EU-T106	[E3]
Q1310	TR 2SC4211-6-TL	[E3]
Q1311	TR DTC144EU-T106	[E2]
Q1312	TR DTA144EU-T106	[E2]
Q1313	TR 2SC4211-6-TL	[E2]
Q1316	TR 2SB1218A-R-TX	[C4]
Q1318	TR 2SC4211-6-TL	[C4]
Q1319	TR 2SC4211-6-TL	[C4]
Q1324	TR 2SB1218A-R-TX	[C4]
Q1328	TR DTC144EU-T106	[E3]
Q1403	TR 2SB1218A-R-TX	[F2]
Q1404	TR 2SB1218A-R-TX	[E2]
Q1405	TR 2SC4211-6-TL	[F2]
Q1406	TR 2SB1218A-R-TX	[E2]
Q1407	TR 2SB1218A-R-TX	[F2]
Q1413	TR DTC144EU-T106	[D3]
Q1414	TR DTC144EU-T106	[D2]
Q1602	TR DTA144EU-T106	[B4]
Q1801	TR 2SB1218A-R-TX	[D5]
Q1802	TR 2SB1218A-R-TX	[D5]
Q1902	TR DTC144EU-T106	[D4]
Q3301	TR XN1211-TW	[A5]
Q3351	TR 2SC4398-TL	[E2]
Q3354	TR 2SB1121-T-TD	[A4]
Q3355	TR DTC144EU-T106	[B2]
Q3356	TR 2SC4398-TL	[B2]
Q3502	TR DTC144EU-T106	[C2]
Q3571	TR 2SC4211-6-TL	[B3]
Q3701	TR 2SK1468-TL	[A2]
Q3801	TR 2SC4211-6-TL	[F5]
R0711	MT-GLAZE 2.7K JA 1/16W	[E4]
R0714	MT-GLAZE 560 JA 1/16W	[E4]
R0715	MT-FILM 180 DU 1/16W	[E4]
R0716	MT-GLAZE 120 JA 1/16W	[E4]
R0723	MT-GLAZE 10K JA 1/16W	[E4]
R0725	MT-GLAZE 680 JA 1/16W	[E4]
R0730	MT-GLAZE 2.2K JA 1/16W	[D3]
R1003	MT-GLAZE 1.2K JA 1/16W	[B4]
R1004	MT-GLAZE 1K JA 1/16W	[D3]
R1005	MT-GLAZE 1K JA 1/16W	[D3]
R1010	MT-GLAZE 1K JA 1/16W	[D3]
R1011	MT-GALZE 3.3K JA 1/16W	[D3]
R1014	MT-GLAZE 1.2K JA 1/16W	[B3]
R1026	MT-GLAZE 1K JA 1/16W	[B5]
R1027	MT-GLAZE 2.2K JA 1/16W	[B4]
R1028	MT-GLAZE 10K JA 1/16W	[F3]
R1029	MT-GLAZE 4.7K JA 1/16W	[D3]
R1039	MT-GLAZE 68 JA 1/16W	[E3]
R1041	MT-GLAZE 430 JA 1/16W	[B5]
R1042	MT-GLAZE 8.2K JA 1/16W	[A3]
R1043	MT-GLAZE 150K JA 1/16W	[E2]
R1052	MT-GLAZE 2.2 JA 1/10W	[F3]
R1061	MT-GLAZE 47K JA 1/16W	[A3]
R1062	MT-GLAZE 47K JA 1/16W	[A4]
R1072	MT-GLAZE 8.2K JA 1/16W	[D3]
R1073	MT-GLAZE 39K JA 1/16W	[C3]
R1108	MT-GLAZE 1.8K JA 1/16W	[C2]
R1109	MT-GLAZE 1K JA 1/16W	[C3]
R1110	MT-GLAZE 1.5K JA 1/16W	[C3]
R1111	MT-GLAZE 560 JA 1/16W	[C3]
R1112	MT-GLAZE 820 JA 1/16W	[C3]
R1113	MT-GLAZE 680 JA 1/16W	[C3]
R1114	MT-GLAZE 2.4K JA 1/16W	[C3]
R1116	MT-GLAZE 0.000 ZA 1/16W	[C3]
R1117	MT-GLAZE 1.5K JA 1/16W	[C2]
R1119	MT-GLAZE 560 JA 1/16W	[C2]
R1120	MT-GLAZE 2.2K JA 1/16W	[C2]
R1121	MT-GLAZE 820 JA 1/16W	[C3]
R1122	MT-GLAZE 1K JA 1/16W	[C2]
R1123	MT-GLAZE 560 JA 1/16W	[C2]
R1124	MT-GLAZE 1K JA 1/16W	[C2]
R1302	MT-GLAZE 1.8K JA 1/16W	[C4]
R1303	MT-GLAZE 910 JA 1/16W	[C4]
R1306	MT-GLAZE 5.6K JA 1/16W	[E3]
R1307	MT-GLAZE 560 JA 1/16W	[E3]
R1308	MT-GLAZE 560 JA 1/16W	[E4]
R1309	MT-GLAZE 100 JA 1/16W	[E4]
R1310	MT-GLAZE 680 JA 1/16W	[E4]
R1312	MT-FILM 390 DU 1/16W	[E4]
R1313	MT-GLAZE 560 JA 1/16W	[E3]
R1315	MT-FILM 180 DU 1/16W	[E4]
R1316	MT-GLAZE 680 JA 1/16W	[E3]
R1317	MT-GLAZE 10 JA 1/16W	[E4]
R1319	MT-GLAZE 1.5K JA 1/16W	[E3]
R1320	MT-GLAZE 10K JA 1/16W	[E3]
R1321	MT-GLAZE 12K JA 1/16W	[E3]
R1322	MT-GLAZE 820 JA 1/16W	[E3]
R1324	MT-GLAZE 330 JA 1/16W	[E3]
R1325	MT-GLAZE 390 JA 1/16W	[E3]
R1326	MT-GLAZE 1.8K JA 1/16W	[E3]
R1327	MT-GLAZE 1.5K JA 1/16W	[E2]
R1328	MT-GLAZE 1.8K JA 1/16W	[E3]
R1329	MT-GLAZE 1.8K JA 1/16W	[E2]
R1331	MT-GLAZE 120 JA 1/16W	[E2]
R1332	MT-GLAZE 560 JA 1/16W	[E2]
R1337	MT-GLAZE 1.5K JA 1/16W	[C4]
R1338	MT-GLAZE 560 JA 1/16W	[C4]
R1340	MT-GLAZE 330 JA 1/16W	[C4]
R1341	MT-GLAZE 1K JA 1/16W	[C4]
R1342	MT-GLAZE 560 JA 1/16W	[C5]
R1343	MT-GLAZE 820 JA 1/16W	[C5]
R1344	MT-GLAZE 1.5K JA 1/16W	[C5]
R1352	MT-GLAZE 5.6 JA 1/10W	[C4]
R1359	MT-FILM 180 DU 1/16W	[C4]
R1360	MT-FILM 680 DU 1/16W	[C4]
R1365	MT-GLAZE 15K JA 1/16W	[C4]
R1366	MT-GLAZE 33K JA 1/16W	[C4]
R1367	MT-GLAZE 0.000 ZA 1/16W	[C5]
R1369	MT-GLAZE 1.5K JA 1/16W	[C4]
R1370	MT-GLAZE 10K JA 1/16W	[E3]
R1406	MT-GLAZE 1K JA 1/16W	[D2]
R1413	MT-GLAZE 5.6K JA 1/16W	[E2]
R1414	MT-GLAZE 1.8K JA 1/16W	[F2]
R1415	MT-GLAZE 1.5K JA 1/16W	[F2]
R1416	MT-GLAZE 1.8K JA 1/16W	[E2]
R1417	MT-GLAZE 1.5K JA 1/16W	[E2]
R1418	MT-GLAZE 620 JA 1/16W	[F2]
R1419	MT-GLAZE 6.2K JA 1/16W	[F2]
R1421	MT-FILM 5.6K DU 1/16W	[F2]
R1422	MT-GLAZE 820 JA 1/16W	[E2]
R1423	MT-FILM 12K DU 1/16W	[F2]
R1424	MT-GLAZE 4.7K JA 1/16W	[E2]
R1430	MT-GLAZE 10K JA 1/16W	[D4]
R1437	MT-FILM 1K DU 1/16W	[F2]
R1440	MT-GLAZE 0.000 ZA 1/16W	[C2]
R1447	MT-GLAZE 10K JA 1/16W	[G4]
R1450	MT-GLAZE 9.1K JA 1/16W	[D2]
R1451	MT-GLAZE 0.000 ZA 1/16W	[D2]
R1452	MT-GLAZE 22K JA 1/16W	[E1]
R1453	MT-GLAZE 1.8K JA 1/16W	[F2]
R1454	MT-GLAZE 6.8K JA 1/16W	[E2]
R1463	MT-GLAZE 0.000 ZA 1/16W	[D2]
R1492	MT-GLAZE 0.000 ZA 1/16W	[G4]
R1605	MT-GLAZE 22K JA 1/16W	[B4]
R1607	MT-GLAZE 27K JA 1/16W	[B4]
R1609	MT-GLAZE 33K JA 1/16W	[B4]
R1610	MT-GLAZE 100K JA 1/16W	[A4]
R1611	MT-GLAZE 330K JA 1/16W	[A4]
R1612	MT-GLAZE 220K JA 1/16W	[A4]
R1625	MT-GLAZE 470 JA 1/16W	[B3]
R1627	MT-GLAZE 10K JA 1/16W	[B3]
R1628	MT-GLAZE 8.2K JA 1/16W	[A3]
R1801	MT-GLAZE 5.6 JA 1/10W	[D5]
R1802	MT-GLAZE 220 JA 1/16W	[D5]
R1803	MT-GLAZE 10 JA 1/16W	[D5]
R1804	MT-GLAZE 270 JA 1/16W	[D5]
R1805	MT-GLAZE 22K JA 1/16W	[D5]
R1806	MT-GLAZE 33K JA 1/16W	[D5]
R1904	MT-GLAZE 12K JA 1/16W	[C4]
R1905	MT-GLAZE 12K JA 1/16W	[C4]
R1906	MT-GLAZE 36K JA 1/16W	[C4]
R1907	MT-GLAZE 36K JA 1/16W	[C4]
R1917	MT-GLAZE 12K JA 1/16W	[C4]
R1918	MT-GLAZE 3.3 JA 1/10W	[D4]
R1919	MT-GLAZE 3.3 JA 1/10W	[D4]
R1925	MT-GLAZE 1K JA 1/16W	[B5]
R1926	MT-GLAZE 2.7K JA 1/16W	[B5]
R1927	MT-FILM 560 DU 1/16W	[E4]
R1928	MT-FILM 5.6K DU 1/16W	[E4]
R1930	MT-GLAZE 82K JA 1/16W	[D4]
R1931	MT-GLAZE 1K JA 1/16W	[D4]
R1932	MT-GLAZE 0.000 ZA 1/16W	[F4]
R1933	MT-GLAZE 0.000 ZA 1/16W	[C4]
R1939	MT-GLAZE 0.000 ZA 1/16W	[C5]
R2201	MT-GLAZE 0.000 ZA 1/16W	[F4]
R2821	MT-GLAZE 0.000 ZA 1/16W	[F3]
R3201	MT-GLAZE 330 JA 1/16W	[C1]
R3202	MT-GLAZE 470K JA 1/16W	[D1]
R3203	MT-GLAZE 39K JA 1/16W	[C1]
R3204	MT-GLAZE 470K JA 1/16W	[C1]
R3205	MT-GLAZE 120K JA 1/16W	[C2]
R3206	MT-GLAZE 10K JA 1/16W	[C2]
R3207	MT-GLAZE 33 JA 1/16W	[D1]
R3307	MT-GLAZE 220 JA 1/10W	[A5]
R3308	MT-GLAZE 100 JA 1/10W	[A5]
R3351	MT-GLAZE 470 JA 1/16W	[E1]
R3361	MT-GLAZE 2.2K JA 1/16W	[A4]
R3362	MT-GLAZE 2.2K JA 1/16W	[A4]
R3365	MT-GLAZE 100K JA 1/16W	[B2]
R3401	MT-GLAZE 1K JA 1/16W	[G5]
R3402	MT-GLAZE 100K JA 1/16W	[B2]
R3509	MT-GLAZE 10K JA 1/16W	[B2]
R3517	MT-GLAZE 100K JA 1/16W	[A2]
R3518	MT-GLAZE 100K JA 1/16W	[B3]
R3527	MT-GLAZE 470 JA 1/16W	[B3]
R3531	MT-GLAZE 100K JA 1/16W	[B3]
R3532	MT-GLAZE 100K JA 1/16W	[B3]
R3534	MT-GLAZE 10K JA 1/16W	[C2]
R3551	MT-GLAZE 47K JA 1/16W	[D2]
R3552	MT-GLAZE 47K JA 1/16W	[D2]
R3602	MT-GLAZE 4.7 JA 1/16W	[B4]
R3603	MT-GLAZE 4.7 JA 1/16W	[B4]
R3604	MT-GLAZE 4.7 JA 1/16W	[B5]
R3606	MT-GLAZE 100K JA 1/16W	[A4]
R3607	MT-GLAZE 1K JA 1/16W	[A4]
R3610	MT-GLAZE 0.000 ZA 1/16W	[A4]
R3701	MT-GLAZE 100K JA 1/16W	[A3]
R3702	MT-GLAZE 2.7K JA 1/16W	[A2]
R3706	MT-GLAZE 22K JA 1/16W	[A3]
R3751	MT-GLAZE 2.7K JA 1/16W	[A2]
R3754	MT-GLAZE 1M JA 1/16W	[A2]
R3804	MT-GLAZE 12K JA 1/16W	[E5]
R3808	MT-GLAZE 39K JA 1/16W	[E4]
R3809	MT-GLAZE 2.2K JA 1/16W	[E4]
R3811	MT-GLAZE 1M JA 1/16W	[F4]
R3812	MT-GLAZE 1K JA 1/16W	[F5]
R3814	MT-GLAZE 1K JA 1/16W	[F5]
R3815	MT-GLAZE 470 JA 1/16W	[F5]
R3816	MT-GLAZE 47 JA 1/16W	[F5]
R3817	MT-GLAZE 47 JA 1/16W	[F5]
R3820	MT-GLAZE 10K JA 1/16W	[E5]
R3821	MT-GLAZE 10K JA 1/16W	[D5]
R3901	MT-GLAZE 1K JA 1/16W	[F5]
RB315	R-NETWORK 100KX2 0.063W	[A2]
RB316	R-NETWORK 100KX2 0.063W	[A3]
RB332	R-NETWORK 10KX2 0.063W	[B5]
RB351	R-NETWORK 100KX2 0.063W	[B2]
RB353	R-NETWORK 10KX2 0.063W	[B3]
RB354	R-NETWORK 100KX2 0.063W	[B3]
RB355	R-NETWORK 100KX2 0.063W	[B3]
X3701	OSC,CERAMIC 2.00MHZ	[A1]

CP1/AD2 BOARD (SIDE B)

	CN291
1	MIC VCC
2	MIC OUT
3	AUDIO GND

TO CP1

	CN292
1	MIC A GND
2	INT MIC A
3	INT MIC B
4	MIC B GND

	CN201
1	MIC VCC
2	MIC AMP OUT
3	AUDIO GND

TO AD2

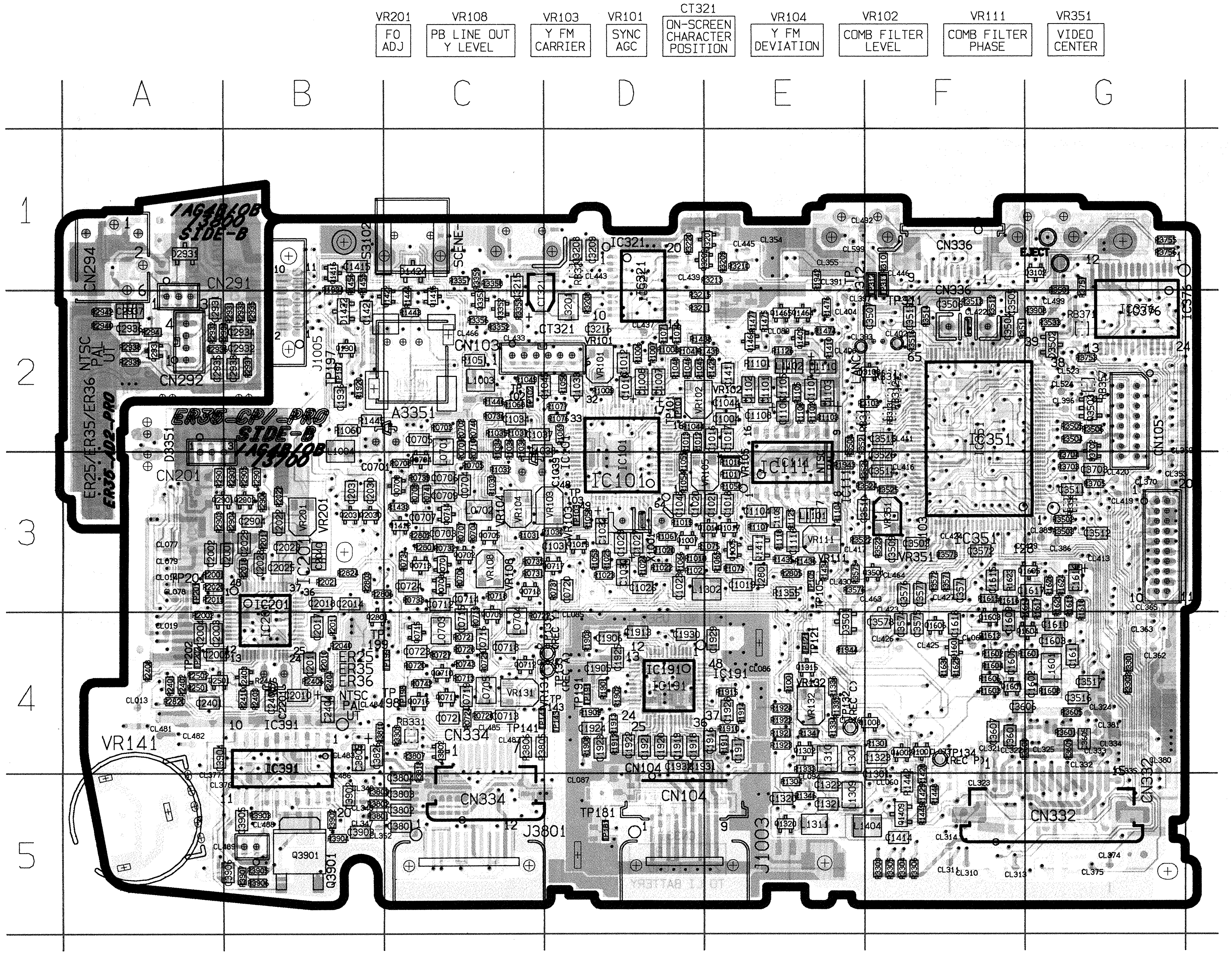
	J1005
1	NOT USED
2	RF SW1
3	PB RF
4	RF SW2
5	NOT USED
6	CCD ON
7	CAM/LINE
8	NOT USED
9	C IN
10	Y, Y+C IN
11	GND
12	GND

	CN103
1	V/A 5V
2	GND
3	VF VIDEO
4	VF 5V

TO VF1

	CN334
1	UNLOAD
2	LOAD
3	MODE SW 0
4	MODE SW 1
5	MODE SW 2
6	GND
7	DEW

TO MECHA



	CN105
1	CAMERA SCK
2	CAMERA SO
3	SOUT 3
4	SOUT 2
5	SIN 3
6	SIN 2
7	SIN 1
8	FADE+DATE
9	DATE BLK
10	SIN 0
11	C GND
12	CAMERA C
13	Y GND
14	CAMERA Y
15	NOT USED ←VM-EX33P
15	MF REF ←VM-EX22P VM-EX25R
16	CAMERA CS

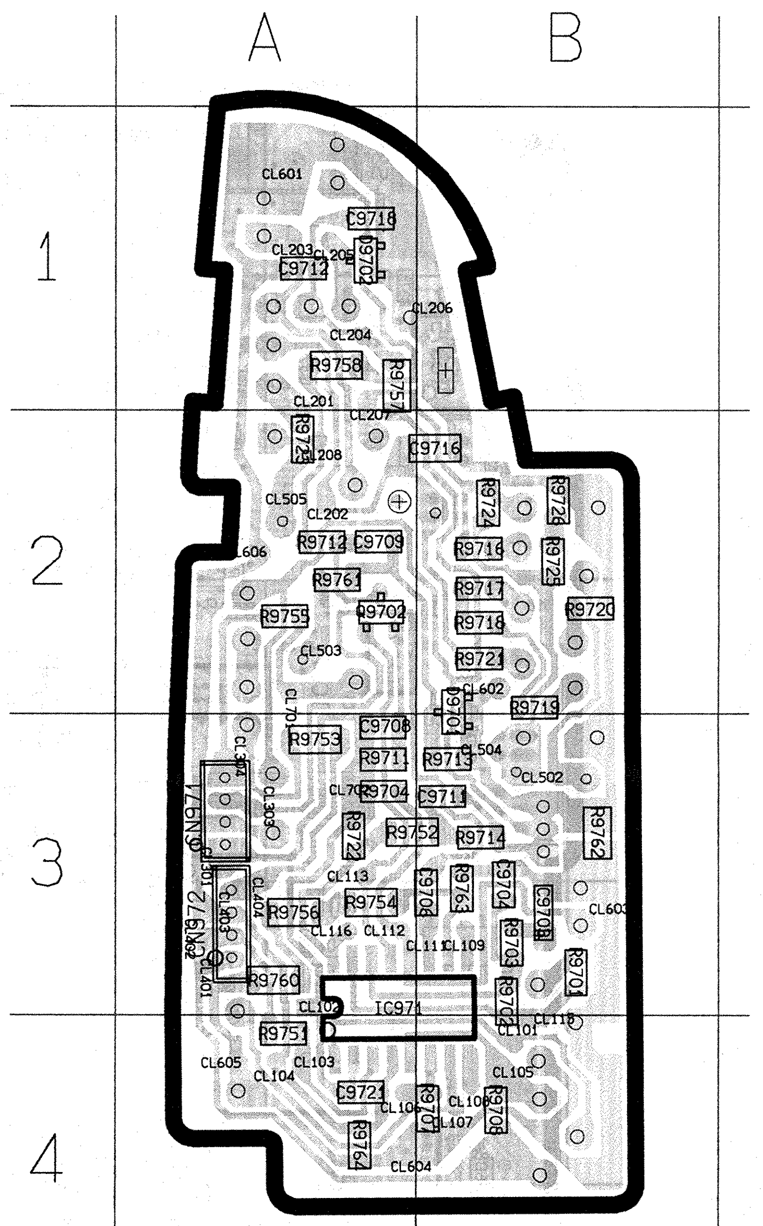
TO CP2

	CN336
1	SIN 6
2	SIN 1
3	SIN 4
4	SIN 0
5	SIN 5
6	SIN 3
7	SIN 2
8	SOUT 0
9	SOUT 1

	CN332
1	FG GND
2	FG OUT2
3	FG VCC
4	FG OUT1
5	HE VCC
6	HU -
7	HU +
8	HV -
9	HV +
10	HW -
11	HW +
12	HE GND
13	CAP V
14	CAP U
15	CAP W

TO CAPSTAN MOTOR

VF1 BOARD (SIDE B)



	CN971
1	V/A 5V
2	GND
3	VIDEO
4	VF 5V

	CN972
1	DV1
2	DV2
3	DH1
4	DH2

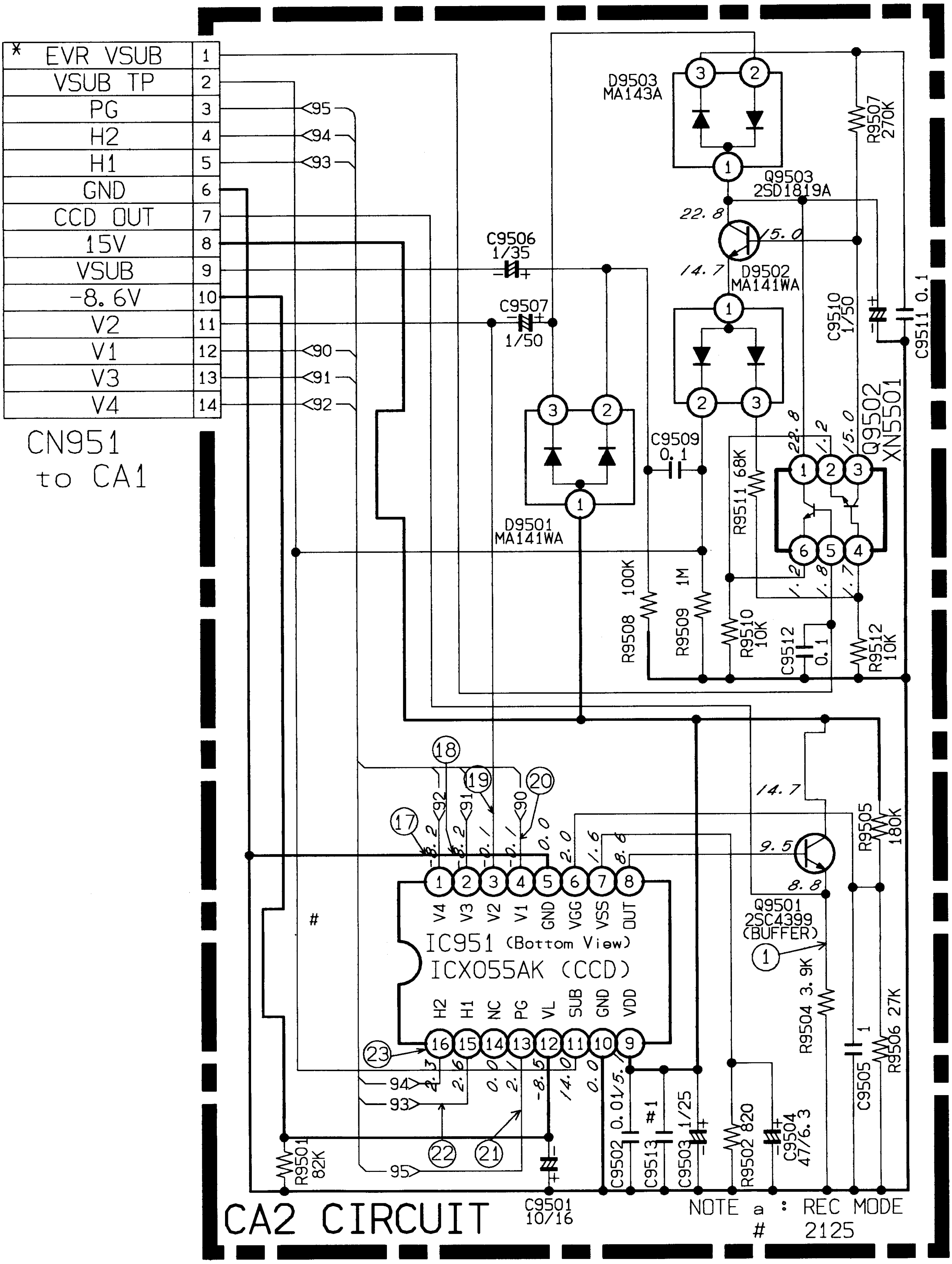
LEADLESS COMPONENT PARTS LOCATION GUIDE
CP1/AD2 BOARD (SIDE B)

C0703	CERAMIC	33P	J	50V	[C3]
C0705	CERAMIC	56P	J	50V	[C2]
C0706	CERAMIC	47P	J	50V	[C3]
C0709	CERAMIC	27P	J	50V	[C3]
C0714	CERAMIC	27P	J	50V	[C3]
C0715	CERAMIC	56P	J	50V	[C4]
C0716	CERAMIC	180P	J	50V	[C4]
C0718	CERAMIC	27P	J	50V	[C4]
C0719	CERAMIC	33P	J	50V	[C4]
C0720	CERAMIC	68P	J	50V	[D3]
C0721	CERAMIC	1000P	K	50V	[C4]
C0724	CERAMIC	270P	J	50V	[C3]
C1004	CERAMIC	1U	Z	16V	[E2]
C1007	TA-SOLID	1U	M	16V	[D2]
C1008	TA-SOLID	3.3U	M	6.3V	[D2]
C1010	CERAMIC	0.01U	K	50V	[D2]
C1012	CERAMIC	0.1U	Z	25V	[D2]
C1016	CERAMIC	390P	J	50V	[E2]
C1017	CERAMIC	330P	J	50V	[E2]
C1020	CERAMIC	1000P	K	50V	[D3]
C1023	CERAMIC	0.1U	Z	25V	[D3]
C1027	CERAMIC	1U	Z	16V	[D3]
C1029	CERAMIC	0.022U	M	50V	[D3]
C1030	TA-SOLID	0.68U	M	20V	[D3]
C1031	CERAMIC	6800P	K	50V	[D3]
C1032	TA-SOLID	1U	M	16V	[D3]
C1033	CERAMIC	0.47U	Z	25V	[D2]
C1034	CERAMIC	0.22U	Z	25V	[C2]
C1037	CERAMIC	1U	Z	16V	[C2]
C1038	CERAMIC	1U	Z	16V	[C2]
C1044	CERAMIC	1000P	K	50V	[E2]
C1104	CERAMIC	1U	Z	16V	[E3]
C1105	CERAMIC	0.1U	Z	25V	[E2]
C1106	CERAMIC	0.1U	Z	25V	[E2]
C1107	CERAMIC	0.1U	Z	25V	[E2]
C1108	CERAMIC	1000P	K	50V	[E2]
C1109	CERAMIC	1000P	K	50V	[E3]
C1116	CERAMIC	27P	J	50V	[E3]
C1320	CERAMIC	0.1U	Z	25V	[E5]
C1321	CERAMIC	75P	J	50V	[E5]
C1322	CERAMIC	270P	J	50V	[E5]
C1323	CERAMIC	36P	J	50V	[F4]
C1411	CERAMIC	10P	D	50V	[E2]
C1414	CERAMIC	0.01U	K	50V	[F5]
C1421	CERAMIC	0.1U	Z	25V	[B2]
C1603	CERAMIC	12P	J	50V	[G4]
C1605	CERAMIC	27P	J	50V	[F4]
C1610	CERAMIC	56P	J	50V	[G4]
C1611	CERAMIC	47P	J	50V	[G4]
C1615	CERAMIC	1U	Z	16V	[F3]
C1618	CERAMIC	1000P	K	50V	[F4]
C1905	CERAMIC	330P	J	50V	[D4]
C1906	CERAMIC	0.047U	Z	25V	[D4]
C1913	CERAMIC	1000P	K	50V	[D4]
C1916	CERAMIC	0.1U	Z	25V	[E4]
C1917	CERAMIC	1000P	K	50V	[E4]
C1918	CERAMIC	0.1U	Z	25V	[D4]
C1919	CERAMIC	0.1U	Z	25V	[D4]
C1920	CERAMIC	0.1U	Z	25V	[D4]
C1921	CERAMIC	0.1U	Z	25V	[D4]
C1922	CERAMIC	0.1U	Z	25V	[D4]
C1923	CERAMIC	1000P	K	50V	[D4]
C1924	CERAMIC	0.01U	K	50V	[D4]
C1925	CERAMIC	1000P	K	50V	[D4]
C1928	CERAMIC	0.01U	K	50V	[E4]
C1929	CERAMIC	1000P	K	50V	[E4]
C1930	CERAMIC	1000P	K	50V	[D4]
C1931	CERAMIC	5P	C	50V	[D4]
C1932	CERAMIC	5P	C	50V	[D4]
C1936	CERAMIC	100P	J	50V	[B2]
C2001	CERAMIC	0.01U	K	50V	[B3]
C2002	CERAMIC	56P	J	50V	[A3]
C2003	CERAMIC	0.01U	K	50V	[A4]
C2005	CERAMIC	1U	Z	16V	[A4]
C2010	CERAMIC	1U	Z	16V	[B4]
C2011	CERAMIC	2200P	K	50V	[B4]
C2014	CERAMIC	1U	Z	16V	[B3]
C2017	CERAMIC	1U	Z	16V	[B4]
C2018	CERAMIC	220P	J	50V	[B3]
C2022	CERAMIC	0.027U	K	25V	[B3]
C2023	CERAMIC	1U	Z	16V	[B3]
C2025	CERAMIC	1U	Z	16V	[B3]
C2028	CERAMIC	0.047U	K	25V	[B3]
C2029	CERAMIC	0.047U	K	25V	[B3]
C2030	CERAMIC	0.01U	K	50V	[B3]
C2031	CERAMIC	0.01U	K	50V	[B3]
C2401	CERAMIC	1U	Z	16V	[A4]
C2801	CERAMIC	1000P	K	50V	[E3]
C2904	CERAMIC	100P	J	50V	[B3]
C2931	CERAMIC	0.056U	K	25V	[A2]
C2936	CERAMIC	0.01U	K	50V	[A2]
C2937	CERAMIC	0.1U	K	25V	[A2]
C3208	CERAMIC	47P	J	50V	[D1]
C3209	CERAMIC	47P	J	50V	[D1]
C3215	CERAMIC	22P	J	50V	[C1]
C3216	CERAMIC	0.1U	Z	25V	[D2]
C3503	CERAMIC	0.1U	Z	25V	[F3]
C3504	CERAMIC	1U	Z	16V	[F2]
C3505	CERAMIC	22P	J	50V	[F2]
C3506	CERAMIC	27P	J	50V	[F2]
C3507	CERAMIC	22P	J	50V	[F2]
C3509	CERAMIC	0.01U	K	50V	[F3]
C3510	CERAMIC	0.01U	K	50V	[E3]
C3511	CERAMIC	150P	J	50V	[G3]
C3512	CERAMIC	150P	J	50V	[G3]
C3513	CERAMIC	22P	J	50V	[F2]
C3514	CERAMIC	47P	J	50V	[F3]
C3515	CERAMIC	47P	J	50V	[F2]
C3516	CERAMIC	470P	J	50V	[G4]
C3517	CERAMIC	470P	J	50V	[G4]
C3526	CERAMIC	47P	J	50V	[F3]
C3571	CERAMIC	0.1U	Z	25V	[F3]
C3572	CERAMIC	0.1U	Z	25V	[F3]
C3576	CERAMIC	0.1U	Z	25V	[F3]
C3577	CERAMIC	0.1U	Z	25V	[F3]
C3578	CERAMIC	0.1U	Z	25V	[F4]
C3606	CERAMIC	0.1U	Z	25V	[F4]
C3607	CERAMIC	0.1U	Z	25V	[F4]
C3703	CERAMIC	0.1U	Z	25V	[G3]
C3801	CERAMIC	0.015U	K	50V	[C5]
C3802	CERAMIC	0.015U	K	50V	[C5]
C3803	CERAMIC	0.015U	K	50V	[C5]
C3804	CERAMIC	0.015U	K	50V	[C5]
C3805	TA-SOLID	0.22U	M	35V	[B4]
C3902	CERAMIC	0.01U	K	50V	[B5]
C3903	CERAMIC	0.01U	K	50V	[B5]
C3904	CERAMIC	100P	J	50V	[A4]
C3905	CERAMIC	0.01U	K	50V	[B5]
C3906	CERAMIC	0.01U	K	50V	[B5]
CT321	TRIMMER,30PF				[C2]
D3102	DIODE	MA141WK-TX			[G1]
D3103	DIODE	MA141WK-TX			[F2]
D3501	ZENER DIODE	MA3082WA-TX			[E4]
D3702	DIODE	MA141WK-TX			[G2]
IC101	IC	CXA1700R-T6			[D3]
IC111	IC	CXL1506M-T4			[E3]
IC191	IC	CXA1202R-T4			[D4]
IC201	IC	LA7454W-P-TRM			[B4]
IC321	IC	XLU6000FS-E1			[D1]
IC351	IC	M37773M4A104HP			[F2]
IC376	IC	M50721-166FP			[G2]
IC391	IC	MPC1720MR1			[B4]
L0701	COIL,INDUCTOR	100U	J		[C2]
L0703	COIL,INDUCTOR	100U	J		[C4]
L0704	HF CHOKE				[C4]
L0705	HF CHOKE				[C4]
L1101	CORE				[E3]
L1309	HF CHOKE				[E5]
L1310	COIL,INDUCTOR	330UH	J		[E4]
L1311	COIL,INDUCTOR	4.7U	J		[E5]
L1601	COIL,INDUCTOR	10U	J		[G4]
L3201	HF CHOKE				[D2]
Q0701	TR	DTC144EU-T106			[C3]
Q0702	TR	2SC4211-6-TL			[C3]
Q0703	TR	2SC4211-6-TL			[C3]
Q0704	TR	2SC4211-6-TL			[C3]
Q0705	TR	2SC4211-6-TL			[C3]
Q0708	TR	DTC144WU-T106			[C3]
Q0709	TR	2SC4211-6-TL			[C4]
Q0710	TR	2SB1218A-R-TX			[C4]
Q0711	TR	2SC4211-6-TL			[C4]
Q0712	TR	2SC4211-6-TL			[C4]
Q0713	TR	2SC4211-6-TL			[C3]
Q0714	TR	2SB1218A-R-TX			[C3]
Q0717	TR	2SC4211-6-TL			[D3]
Q0718	TR	2SB1218A-R-TX			[C3]
Q1001	TR	DTC144EU-T106			[F4]
Q1002	TR	DTC144EU-T106			[F4]
Q1007	TR	2SC4211-6-TL			[D3]
Q1008	TR	DTC144EU-T106			[F4]
Q1014	TR	2SC4211-6-TL			[E3]
Q1302	TR	2SC4211-6-TL			[E4]
Q1320	TR	2SB1218A-R-TX			[E5]
Q1409	TR	2SB815-B6-TB			[F5]
Q1412	TR	DTC144EU-T106			[C3]
Q1415	TR	UN5210-R-TX			[C2]
Q1422	TR	2SA1745-6-TL			[C2]
Q1465	TR	2SC4211-6-TL			[E2]
Q1466	TR	2SB1218A-R-TX			[E2]
Q1603	TR	2SC4211-6-TL			[F4]
Q1604	TR	2SC4211-6-TL			[G4]
Q1605	TR	DTC144EU-T106			[G3]
Q1606	TR	DTC144EU-T106			[F4]
Q1901	TR	DTC144EU-T106			[B2]
Q2030	TR	DTC144EU-T106			[B3]
Q2031	TR	DTA144EU-T106			[B3]
Q2501	TR	2SA1745-6-TL			[A4]
Q2901	TR	2SC4211-6-TL			[B3]
Q2902	TR	2SC4211-6-TL			[B3]
Q3201	TR	DTC144EU-T106			[E1]
Q3202	TR	2SC4211-6-TL			[E1]
Q3352	TR	2SA1677-TL			[C2]
Q3353	TR	2SC4211-6-TL			[C2]
Q3501	TR	2SA1745-6-TL			[F3]
Q3503	TR	XN1213-TW			[G2]
Q3802	TR	DTC144EU-T106			[C4]
Q3901	TR	2SB1202-S-TL			[B5]
R0702	MT-GLAZE	820	JA	1/16W	[C2]
R0703	MT-GLAZE	820	JA	1/16W	[C2]
R0704	MT-GLAZE	560	JA	1/16W	[C3]
R0705	MT-GLAZE	0.000	ZA	1/16W	[C3]
R0706	MT-GLAZE	220	JA	1/16W	[C3]
R0707	MT-FILM	2.7K	DU	1/16W	[C3]
R0708	MT-GLAZE	10K	JA	1/16W	[C3]
R0709	MT-FILM	270	DU	1/16W	[C3]
R0710	MT-FILM	220	DU	1/16W	[C2]
R0718	MT-GLAZE	3.3K	JA	1/16W	[C3]
R0719	MT-FILM	1.8K	DU	1/16W	[C4]
R0720	MT-GLAZE	220	JA	1/16W	[C4]
R0721	MT-GLAZE	0.000	ZA	1/16W	[C4]
R0722	MT-GLAZE	820	JA	1/16W	[C4]
R0724	MT-GLAZE	220	JA	1/16W	[C4]
R0726	MT-FILM	2.7K	DU	1/16W	[C4]
R0727	MT-FILM	220	DU	1/16W	[C4]
R0728	MT-GLAZE	220	JA	1/16W	[C4]
R0729	MT-GLAZE	680	JA	1/16W	[C4]
R0731	MT-GLAZE	560	JA	1/16W	[C3]
R0732	MT-GLAZE	560	JA	1/16W	[C3]
R0733	MT-GLAZE	180	JA	1/16W	[C3]
R0734	MT-GLAZE	220	JA	1/16W	[C3]
R0735	MT-GLAZE	560	JA	1/16W	[C3]
R0736	MT-GLAZE	0.000	ZA	1/16W	[C2]
R0737	MT-GLAZE	560	JA	1/16W	[D3]
R0739	MT-GLAZE	47K	JA	1/16W	[C3]
R0743	MT-GLAZE	15	JA	1/16W	[C4]
R1001	MT-GLAZE	2.2K	JA	1/16W	[E4]
R1008	MT-GLAZE	1K	JA	1/16W	[D2]
R1009	MT-GLAZE	47K	JA	1/16W	[D2]
R1012	MT-GLAZE	470	JA	1/16W	[D2]
R1013	MT-GLAZE	1.2K	JA	1/16W	[D2]
R1019	MT-GLAZE	1K	JA	1/16W	[D3]
R1023	MT-FILM	18K	DU	1/16W	[D3]
R1024	MT-GLAZE	5.6K	JA	1/16W	[D3]
R1025	MT-GLAZE	3.9K	JA	1/16W	[D3]
R1030	MT-GLAZE	27K	JA	1/16W	[D3]
R1031	MT-GLAZE	0.000	ZA	1/16W	[C3]
R1032	MT-GLAZE	18K	JA	1/16W	[C3]
R1033	MT-GLAZE	0.000	ZA	1/16W	[C3]
R1034	MT-GLAZE	6.8K	JA	1/16W	[C2]
R1035	MT-GLAZE	39K	JA	1/16W	[C2]
R1036	MT-GLAZE	180	JA	1/16W	[C2]
R1037	MT-GLAZE	1K	JA	1/16W	[C2]
R1038	MT-GLAZE	680	JA	1/16W	[C2]
R1044	MT-GLAZE	560	JA	1/16W	[D2]
R1051	MT-GLAZE	2.2	JA	1/10W	[C2]
R1054	MT-GLAZE	18K	JA	1/16W	[D3]
R1055	MT-GLAZE	27K	JA	1/16W	[D3]
R1056	MT-GLAZE	0.000	ZA	1/16W	[E3]
R1058	MT-GLAZE	0.000	ZA	1/16W	[D3]
R1060	MT-GLAZE	2.2	JA	1/10W	[B2]
R1065	MT-GLAZE	1.5K	JA	1/16W	[E3]
R1066	MT-GLAZE	1K	JA	1/16W	[D3]
R1067	MT-GLAZE	1.5K	JA	1/16W	[D3]
R1068	MT-GLAZE	2.2M	JA	1/16W	[C2]
R1069	MT-GLAZE	330K	JA	1/16W	[D2]
R1070	MT-FILM	18K	DU	1/16W	[D2]
R1071	MT-FILM	33K	DU	1/16W	[D2]
R1076	MT-GLAZE	10K	JA	1/16W	[D2]
R1077	MT-GLAZE	10K	JA	1/16W	[D2]
R1101	MT-GLAZE	2.2	JA	1/10W	[E2]
R1103	MT-GLAZE	0.000	ZA	1/16W	[E2]
R1105	MT-GLAZE	120	JA	1/16W	[E2]
R1106	MT-GLAZE	82K	JA	1/16W	[E2]
R1107	MT-GLAZE	560K	JA	1/16W	[E3]
R1118	MT-GLAZE	1.2K	JA	1/16W	[E3]
R1126	MT-GLAZE	0.000	ZA	1/16W	[E2]
R1301	MT-GLAZE	560	JA	1/16W	[F4]
R1304	MT-GLAZE	1.5K	JA	1/16W	[E5]
R1333	MT-GLAZE	330	JA	1/16W	[E4]
R1334	MT-FILM	820	DU	1/16W	[E4]
R1335	MT-FILM	1K	DU	1/16W	[E4]
R1336	MT-FILM	220	DU	1/16W	[E4]
R1346	MT-GLAZE	680	JA	1/16W	[E5]
R1355	MT-GLAZE	10	JA	1/10W	[E3]
R1426	MT-GLAZE	15K	JA	1/16W	[E2]
R1428	MT-GLAZE	4.7K	JA	1/16W	[F5]
R1429	MT-GLAZE	1.5K	JA	1/16W	[F5]
R1433	MT-GLAZE	10K	JA	1/16W	[C3]
R1438	MT-GLAZE	0.000	ZA	1/16W	[D2]
R1439	MT-GLAZE	4.7K	JA	1/16W	[E2]
R1442	MT-GLAZE	5.6	JA	1/10W	[F5]
R1443	MT-GLAZE	1K	JA	1/16W	[C2]
R1444	MT-GLAZE	3.6K	JA	1/16W	[C2]
R1445	MT-GLAZE	3.3	JA	1/10W	[B2]
R1448	MT-GLAZE	1.5K	JA	1/16W	[F5]
R1475	MT-GLAZE	2.4K	JA	1/16W	[E2]
R1476	MT-GLAZE	1.8K	JA	1/16W	[E2]
R1477	MT-GLAZE	2.2K	JA	1/16W	[E2]
R1608	MT-GLAZE	330	JA	1/16W	[G4]
R1613	MT-GLAZE	220	JA	1/16W	[F4]
R1617	MT-GLAZE	1.2K	JA	1/16W	[G3]
R1618	MT-GLAZE	910	JA	1/16W	[G3]
R1619	MT-GLAZE	1.8K	JA	1/16W	[G3]
R1620	MT-GLAZE	2.7K	JA	1/16W	[G3]
R1623	MT-GLAZE	2.2	JA	1/10W	[F3]
R1624	MT-GLAZE	0.000	ZA	1/16W	[G3]
R1626	MT-GLAZE	10K	JA	1/16W	[G3]
R1629	MT-GLAZE	10K	JA	1/16W	[F4]
R1630	MT-GLAZE	0.000	ZA	1/16W	[F4]
R1901	MT-GLAZE	150K	JA	1/16W	[D4]
R1902	MT-GLAZE	82K	JA	1/16W	[D4]
R1903	MT-GLAZE	150K	JA	1/16W	[D4]
R1908	MT-GLAZE	22K	JA	1/16W	[D4]
R1909	MT-GLAZE	1.5K	JA	1/16W	[D4]
R1910	MT-GLAZE	56K	JA	1/16W	[E4]
R1911	MT-GLAZE	39K	JA	1/16W	[E4]
R1912	MT-GLAZE	24K	JA	1/16W	[D4]
R1913	MT-GLAZE	56K	JA	1/16W	[D4]
R1914	MT-GLAZE	22K	JA	1/16W	[E4]
R1915	MT-GLAZE	1.5K	JA	1/16W	[E4]
R1920	MT-GLAZE	10K	JA	1/16W	[B2]
R1921	MT-GLAZE	39K	JA	1/16W	[E4]
R1922	MT-GLAZE	220K	JA	1/16W	[E4]
R1923	MT-GLAZE	39K	JA	1/16W	[E4]
R1924	MT-GLAZE	220K	JA	1/16W	[E4]
R1934	MT-GLAZE	3.3K	JA	1/16W	[B1]
R1944	MT-GLAZE	0.000	ZA	1/16W	[E4]
R2001	MT-GLAZE	6.8K	JA	1/16W	[A3]
R2010	MT-GLAZE	33K	JA	1/16W	[B4]
R2011	MT-GLAZE	10K	JA	1/16W	[B4]
R2017	MT-FILM	18K	DU	1/16W	[B3]
R2018	MT-GLAZE	3.3M	JA	1/16W	[B3]
R2019	MT-FILM	7.5K	DU	1/16W	[A3]
R2020	MT-FILM	10K	DU	1/16W	[A3]
R2021	MT-GLAZE	5.6K	JA	1/16W	[B3]
R2022	MT-GLAZE	1.2K	JA	1/16W	[B3]
R2040	MT-GLAZE	1K	JA	1/16W	[B4]
R2401	MT-GLAZE	1K	JA	1/16W	[A4]
R2402	MT-GLAZE	1K	JA	1/16W	[A4]
R2408	MT-GLAZE	100K	JA	1/16W	[A4]
R2410	MT-GLAZE	0.000	ZA	1/16W	[B4]
R2501	MT-GLAZE	22K	JA	1/16W	[A4]
R2502	MT-GLAZE	10K	JA	1/16W	[A4]
R2802	MT-GLAZE	0.000	ZA	1/16W	[C3]
R2806	MT-GLAZE	0.000	ZA	1/16W	[B3]
R2824	MT-GLAZE	6.8K	JA	1/16W	[B3]
R2901	MT-GLAZE	22K	JA	1/16W	[A3]
R2902	MT-GLAZE	27K	JA	1/16W	[B3]
R2903	MT-GLAZE	180	JA	1/16W	[A3]
R2904	MT-GLAZE	1K	JA	1/16W	[B3]
R2905	MT-GLAZE	2.2K	JA	1/16W	[B3]
R2906	MT-GLAZE	4.7K	JA	1/16W	[B3]
R2907	MT-GLAZE	220	JA	1/16W	[B3]
R2931	MT-GLAZE	1.2K	JA	1/16W	[B2]
R2932	MT-GLAZE	1K	JA	1/16W	[A2]
R2940	MT-GLAZE	1K	JA	1/16W	[A2]
R2941	MT-GLAZE	8.2K	JA	1/16W	[A2]
R2942	MT-GLAZE	22K	JA	1/16W	[A2]
R3101	MT-GLAZE	10K	JA	1/16W	[F1]
R3208	MT-GLAZE	1.8K	JA	1/16W	[D2]
R3209	MT-GLAZE	47K	JA	1/16W	[E1]
R3210	MT-GLAZE	47K	JA	1/16W	[E1]
R3211	MT-GLAZE	10K	JA	1/16W	[D2]
R3213	MT-GLAZE	10K	JA	1/16W	[E1]
R3215	MT-GLAZE	0.000	ZA	1/16W	[D2]
R3220	MT-GLAZE	47K	JA	1/16W	[D1]
R3301	MT-GLAZE	10K	JA	1/16W	[G4]
R3302	MT-GLAZE	10K	JA	1/16W	[G4]
R3303	MT-GLAZE	47K	JA	1/16W	[F5]
R3304	MT-GLAZE	56K	JA	1/16W	[F5]
R3305	MT-GLAZE	47K	JA	1/16W	[F5]
R3306	MT-GLAZE	47K	JA	1/16W	[F5]
R3309	MT-GLAZE	100K	JA	1/16W	[C4]
R3352	MT-GLAZE	5.6	JA	1/16W	[C2]
R3353	MT-GLAZE	47K	JA	1/16W	[C2]
R3356	MT-GLAZE	10K	JA	1/16W	[C2]
R3357	MT-GLAZE	100	JA	1/16W	[C1]
R3358	MT-GLAZE	22K	JA	1/16W	[C1]
R3359	MT-GLAZE	22K	JA	1/16W	[C1]
R3501	MT-GLAZE	0.000	ZA	1/16W	[G2]
R3502	MT-GLAZE	1K	JA	1/16W	[G3]
R3503	MT-GLAZE	1K	JA	1/16W	[G3]
R3504	MT-GLAZE	10K	JA	1/16W	[G2]
R3505	MT-GLAZE	10K	JA	1/16W	[G2]
R3506	MT-GLAZE	10K	JA	1/16W	[G2]
R3508	MT-GLAZE	100K	JA	1/16W	[E2]
R3512	MT-GLAZE	1M	JA	1/16W	[F2]
R3513	MT-GLAZE	1K	JA	1/16W	[F2]
R3514	MT-GLAZE	3.3M	JA	1/16W	[F2]
R3516	MT-GLAZE	1K	JA	1/16W	[F2]
R3521	MT-FILM	100K	DD	1/16W	[E2]
R3522	MT-GLAZE	15K	JA	1/16W	[E3]
R3523	MT-FILM	100K	DD	1/16W	[F3]
R3524	MT-GLAZE	270K	JA	1/16W	[F3]
R3525	MT-GLAZE	10K	JA	1/16W	[F3]
R3526	MT-GLAZE	47K	JA	1/16W	[E3]
R3533	MT-GLAZE	100K	JA	1/16W	[G2]
R3571	MT-GLAZE	1K	JA	1/16W	[F3]
R3572	MT-GLAZE	1K	JA	1/16W	[F3]
R3573	MT-GLAZE	47K	JA	1/16W	[F3]
R3575	MT-GLAZE	10K	JA	1/16W	[E3]
R3576	MT-GLAZE	10K	JA	1/16W	[E3]
R3601	MT-GLAZE	22K	JA	1/16W	[G4]
R3605	MT-GLAZE	39K	JA	1/16W	[G4]
R3608	MT-GLAZE	3.3K	JA	1/16W	[F4]
R3609	MT-GLAZE	1.8K	JA	1/16W	[G4]
R3703	MT-GLAZE	100K	JA	1/16W	[G3]
R3704	MT-GLAZE	560	JA	1/16W	[G3]
R3705	MT-GLAZE	220K	JA	1/16W	[G3]
R3753	MT-GLAZE	100	JA	1/16W	[G2]
R3755	MT-GLAZE	470	JA	1/16W	[G1]
R3756	MT-GLAZE	470	JA	1/16W	[G1]
R3757	MT-GLAZE	5.6	JA	1/16W	[G1]
R3801	MT-GLAZE	56K	JA	1/16W	[B5]
R3802	MT-GLAZE	56K	JA	1/16W	[B5]
R3803	MT-GLAZE	56K	JA	1/16W	[B5]
R3805	MT-GLAZE	1	JA	1/10W	[C4]
R3806	MT-GLAZE	1	JA	1/10W	[C4]
R3807	MT-GLAZE	270K	JA	1/16W	[C4]
R3810	MT-GLAZE	33K	JA	1/16W	[B4]
R3818	MT-GLAZE	0.000	ZA	1/16W	[C4]
R3902	MT-GLAZE	3.9K	JA	1/16W	[B5]
R3905	MT-GLAZE	560	JA	1/16W	[B5]
R3906	MT-FILM	10K	DU	1/16W	[B5]
R3907	MT-FILM	10K	DU	1/16W	[B5]
R3908	MT-GLAZE	100K	JA	1/16W	[G2]
RB311	R-NETWORK	100KX2		0.063W	[F2]
RB312	R-NETWORK	100KX2		0.063W	[F2]
RB313	R-NETWORK	100KX2		0.063W	[F2]
RB314	R-NETWORK	100KX2		0.063W	[E2]
RB321	R-NETWORK	10KX2		0.063W	[D1]
RB331	R-NETWORK	100KX2		0.063W	[C4]
RB356	R-NETWORK	10KX2		0.063W	[G3]
RB357	R-NETWORK	100KX2		0.063W	[G2]
RB371	R-NETWORK	10KX2		0.063W	[G2]
TP101	TERMINAL,TESTPIN				[D2]
TP103	TERMINAL,TESTPIN				[D3]
TP191	TERMINAL,TESTPIN				[D4]
VR101	SVR	47K			[D2]
VR102	SVR	47K			[D2]
VR103	SVR	47K			[D3]
VR104	SVR	47K			[C3]
VR108	SVR	470			[C3]
VR111	SVR	4.7K			[E3]
VR201	SVR	10K			[B3]
VR351	SVR	100K			[F3]

LEADLESS COMPONENT PARTS LOCATION GUIDE
VF1 BOARD (SIDE B)

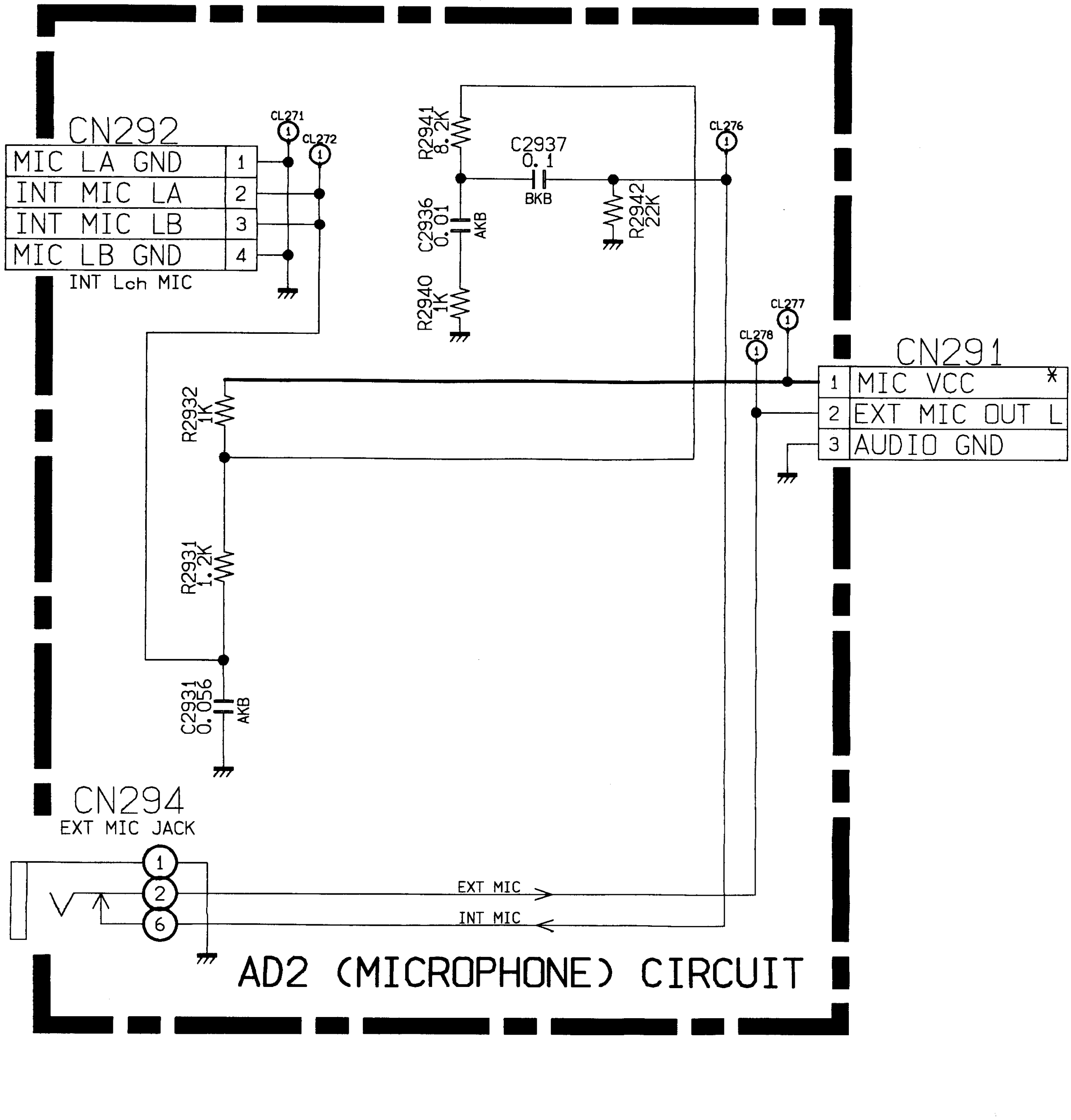
C9703	TA-SOLID	1U	M	16V	[B4]
C9704	CERAMIC	1500P	K	50V	[B4]
C9706	CERAMIC	1U	Z	16V	[B4]
C9708	CERAMIC	47P	J	50V	[B3]
C9709	CERAMIC	0.1U	Z	50V	[B3]
C9711	CERAMIC	0.1U	Z	25V	[B4]
C9712	CERAMIC	560P	J	50V	[A2]
C9716	CERAMIC	0.022U	K	100V	[B2]
C9718	CERAMIC	1000P	J	50V	[B2]
D9701	DIODE	DSB010-TB			[B3]
D9702	DIODE	SB02-09CP-TB			[B2]
IC971	IC	BA7149F-T1			[B4]
Q9702	TR	2SA1257-G5-TB			[B3]
R9701	MT-GLAZE	100K	JA	1/10W	[B4]
R9702	MT-GLAZE	390K	JA	1/10W	[B4]
R9703	MT-GLAZE	10K	JA	1/10W	[B4]
R9704	MT-GLAZE	27	JA	1/10W	[B4]
R9707	MT-GLAZE	18K	JA	1/10W	[B5]
R9708	MT-GLAZE	3.9	JA	1/10W	[B5]
R9711	MT-GLAZE	4.7K	GA	1/10W	[B3]
R9712	MT-GLAZE	22K	GA	1/10W	[A3]
R9713	MT-GLAZE	3.3M	JA	1/10W	[B3]
R9714	MT-GLAZE	330	JA	1/10W	[B4]
R9716	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9717	MT-GLAZE	3.3M	JA	1/10W	[B3]
R9718	MT-GLAZE	390K	JA	1/10W	[B3]
R9719	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9720	MT-GLAZE	120K	JA	1/10W	[B3]
R9721	MT-GLAZE	1.5M	JA	1/10W	[B3]
R9722	MT-GLAZE	1K	JA	1/10W	[B4]
R9723	MT-GLAZE	4.7	JA	1/10W	[A2]
R9724	MT-GLAZE	5.6M	JA	1/10W	[B3]
R9725	MT-GLAZE	8.2M	JA	1/10W	[B3]
R9726	MT-GLAZE	0.000	ZA	1/10W	[B3]
R9751	MT-GLAZE	0.000	ZA	1/10W	[A4]
R9752	MT-GLAZE	0.000	ZA	1/8W	[B4]
R9753	MT-GLAZE	0.000	ZA	1/8W	[A3]
R9754	MT-GLAZE	0.000	ZA	1/8W	[B4]
R9755	MT-GLAZE	0.000	ZA	1/10W	[A3]
R9756	MT-GLAZE	0.000	ZA	1/8W	[A4]
R9757	MT-GLAZE	0.000	ZA	1/8W	[B2]
R9758	MT-GLAZE	0.000	ZA	1/8W	[A2]
R9760	MT-GLAZE	0.000	ZA	1/8W	[A4]
R9761	MT-GLAZE	0.000	ZA	1/10W	[A3]
R9764	MT-GLAZE	0.000	ZA	1/10W	[B5]

CA2 CIRCUIT


* EVR VSUB 1
VSUB TP 2
PG 3
H2 4
H1 5
GND 6
CCD OUT 7
15V 8
VSUB 9
-8.6V 10
V2 11
V1 12
V3 13
V4 14
CN951
to CA1
95
94
93
90
91
92
D9503
MA143A
R9507
270K
Q9503
2SD1819A
22.8
5.0
14.7
D9502
MA141WA
C9506
1/35
C9507
1/50
C9510
1/50
C9511 0.1
Q9502
XN5501
C9509
0.1
R9511 68K
D9501
MA141WA
R9508 100K
R9509 1M
R9510
10K
C9512
0.1
R9512
10K
18
19
20
17
14.7
R9505
180K
9.5
8.8
Q9501
2SC4399
(BUFFER)
IC951 (Bottom View)
ICX055AK (CCD)
V4 V3 V2 V1 GND VGG VSS OUT
H2 H1 NC PG VL SUB GND VDD
#
23
22
21
R9504 3.9K
C9505 1
R9506 27K
R9501
82K
C9501
10/16
C9502 0.01/5.
C9513 #1
C9503 1/25
R9502 820
C9504
47/6.3
CA2 CIRCUIT
NOTE a : REC MODE
# 2125

K

AD2 (MICROPHONE) CIRCUIT


CN292
MIC LA GND 1
INT MIC LA 2
INT MIC LB 3
MIC LB GND 4
INT Lch MIC
CL271
CL272
R2941 8.2K
C2937 0.1 BKB
C2936 0.01 AKB
R2942 22K
R2940 1K
CL276
CL277
CL278
CN291
1 MIC VCC
2 EXT MIC OUT L
3 AUDIO GND
R2932 1K
R2931 1.2K
C2931 0.056 AKB
CN294
EXT MIC JACK
1
2
6
EXT MIC
INT MIC
AD2 (MICROPHONE) CIRCUIT

L

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